



QCWA
1947 - 2007
*Celebrating
60 Years!*

QCWA Journal

Quarter Century Wireless Association - Founded in 1947

www.qcwa.org • Published Quarterly • \$6.25 • WINTER 2007 • Vol. 56, No. 4



This is a portion of the antenna farm at Collins Radio Company in Cedar Rapids. See the bottom of page one for more details!

Quarter Century Wireless Association
PO Box 3247
Framingham, MA 01705-3247

Change Service Requested

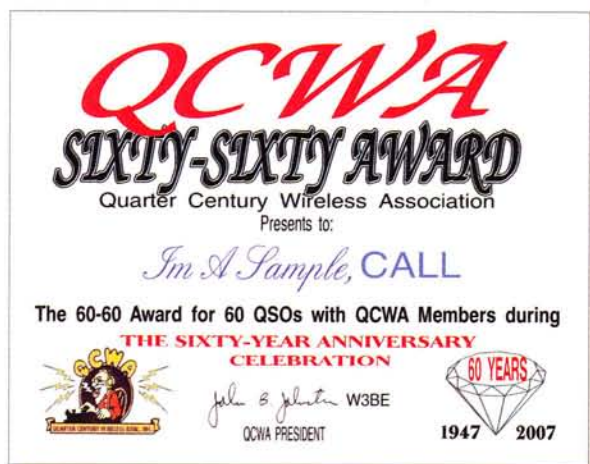
*****AUTO**SCH 3-DIGIT 015
112 24804 L 52
WALBRIDGE, CHARLES E, K1IGD
PO BOX 3247
FRAMINGHAM MA 01705-3247

NON PROFIT
U.S. POSTAGE
PAID
ASHLAND, MA
PERMIT NO. 7

10



The QCWA Celebrates its Sixtieth Anniversary!



The Quarter Century Wireless Association has a cake in the oven and the ice cream churn is a-churnin' in anticipation of celebrating its 60th Diamond Anniversary!

Time truly does fly! It was what seems like only yesterday that on November 14, 1947, during a 10-Meter round-table QSO, the suggestion was made to form an association of ham radio operators that had been licensed for twenty-five years or more. The very next month, with that thought in mind, a group of hams met on Friday evening, December 5, 1947, in New York City. That evening, the Quarter Century Wireless Association (QCWA) was born.

In order to celebrate our Sixtieth Anniversary in grand style, the Quarter Century Wireless Association is pleased to announce a new, limited availability, operating Award to celebrate this momentous occasion known as the **QCWA Sixty-Sixty Award**.

This Award is unique in that it represents the first Award of its type offered by the QCWA. In order to raise the awareness of and stimulate new Membership in the QCWA, the Award is available to both Members and non-Members alike. The basic requirements are simple: Make 60, two-way contacts with 60 different QCWA Members.

The QCWA Sixty-Sixty Award became available with its announcement at the 2007 Dayton Hamvention on May 18, 2007 by President John Johnston, W3BE. The final day for contacts is no later than 2400 UTC, June 30, 2008. All applications for the Award should be post marked no later than September 1, 2008.

The specific Eligibility Requirements are as follows:

The applicant must submit a list of 60 different two-way contacts with QCWA Members and their associated Membership numbers.

Two-way contacts may be made utilizing any RF mode of operation on any frequency authorized for amateur use to include the use of VHF/UHF repeaters.

Submitted log information should include the time (UTC), date of contact, callsign, QCWA Member's name and the Member's Membership number.

The applicant should include with each application, a statement in his/her own words that the contacts are true and correct and were made in accordance with both the amateur regulatory requirements for his country of residence and the QCWA requirements as set forth for the Award.

There is a fee of \$2.00 USD for applicants (check, cash, or money order only. No credit cards or stamps are accepted.) Award certificates will be gratis to stations outside North America but donations to defray postage/handling will be gratefully accepted.

Applicants are requested to submit the requested items to:

W2OD/ Robert Buus / 8 Donner St. /Holmdel, NJ 07733-2004 / U.S.A.

Specific Award questions should be directed to the above address or E-mailed to: w2od@aol.com



QCWA Journal

www.qcwa.org • Winter 2007 • Volume 56, Number 4

Editor

Douglas Walbridge
P.O. Box 251
Hudson, MA 01749
qcwaeditor@gmail.com

Contributing Authors

John B. Johnston, W3BE
George Hart, W1NJM
David Conn, VE3KL

Business Office

QCWA, Inc.
P.O. Box 3247
Framingham, MA 01705-3247
508-405-1930
FAX: 508-405-1965
qcwagm@rcn.com

Webmaster

Bob Roske, N0UF
993 Hassan Street SE
Hutchinson, MN 55350-3215
320-587-3890
broske@hutchtel.net

QCWA On The Web:

<http://www.qcwa.org>
e-mail address:
qcwagm@rcn.com

QCWA National Nets

SSB - Sunday at 2000Z on 14347
CW - Wednesdays at
2000Z on 7035

QCWA JOURNAL is published four times a year (quarterly) by the Quarter Century Wireless Association, Inc. Membership in QCWA, including a subscription to the Journal, is available to individuals who qualify in the United States and its possessions at the following rates: \$25 for one year; \$40 for two years; \$55 for three years; and \$375 for life. For Canadian & foreign membership rates, please contact the business office.

POSTMASTER: Please send change of address to QCWA, Inc., P.O. Box 3247, Framingham, MA 01705-3247.

Contents of this Journal are ©2007 QCWA
(Quarter Century Wireless Association)

REPORTS

President's Message - John B. Johnston, W3BE	3
General Manager's Report - Chuck Walbridge, K1IGD	5
Chapter Reports	16
2008 Nominating Committee Report	40
New Members	42

FEATURES

Losing Ham History - Bob, N0UF	6
QCWA Scholarship Winners!	7
Your RF Antenna & Safety Ground - David Conn, VE3KL	35
Random Recollections - George Hart, W1NJM	44

COLUMNS

Q&A The Rules Say... - John B. Johnston, W3BE	12
--	----

DEPARTMENTS

Memorial Scholarship Fund	49
Classified Ads	52
Silent Keys	54
Chapters On The Air	41

This month's cover: This is a portion of the antenna farm at Collins Radio Company in Cedar Rapids looking due south toward the Engineering Building. These antennas are part of Comm-Central, a commercial HF radio station operated by the Collins Company. The directional antennas are Collins Log Periodics and mono-band beams. The antenna farm was built in 1954 and is the "business end" of some very powerful state-of-the-art Collins HF transmitters. The photo was made during an inspection tour by the Collins Collectors Association in August 1996. The photos were made during an inspection tour by the Collins Collectors Association in August 1996 and by LeRoy Baldwin in 2007.

DISCLAIMER: Opinions expressed by the authors of articles contributed to the Journal do not represent the official position of the Officers or Directors of the Quarter Century Wireless Association, Inc.

QCWA Officers and Board of Directors

President: John B. Johnston, W3BE

17701 Bowie Mill Rd., Derwood, MD 20855-1608
Phone: 301-869-8286, johnston.john1@att.net

Vice President: Leonard Nathanson, W8RC

29203 Lake Park Drive, Farmington Hills, MI 48331-2661
Phone: 248-553-8111, email: radioamw8rc@gmail.com

Secretary: Walter Supina, N3WS

525 Ridge Avenue, State College, PA 16803-3442,
Phone: 814-238-3798, email: n3wsqcwa@gmail.com

Treasurer: Frank Harris, WA4PAM

512 E Pasadena Ave, Clewiston, FL 33440-3207
Phone: 863-902-3645, e-mail: fharris44@earthlink.net

General Manager: Chuck Walbridge, K1IGD

P.O.Box 3247 Framingham, MA 01705-3247
Phone: 508-405-1930, FAX: 508-405-1965,
email: qcwagm@rcn.com
QCWA home page - <http://www.qcwa.org>

Directors

Leroy Baldwin, W0OFY

645 Mentzer Road S, Robins, IA 52328-9703
Phone: 319-395-7183, email: lgbw0ofy@aol.com

Val Erwin, W5PUT

1419 Latigo Lane, Flower Mound, TX 75002-6588
Phone: 817-490-6122, email: dallasqcwa@sbcglobal.net

Carolyn Harrison, WB0OUM

P.O. Box 467, Bolivar, MO 65613-0467
Phone: 417-777-7777, email: carolynwb0oum@alltel.net

Tony Hirsch, W8RSH

6229 Olentangy River Road, Worthington, OH 43085-3469
Phone: 614-880-4466, email: thirsch@ameritech.net

Larry McCalvy, WA9JMO

5400 6 Mile Road, Racine, WI 53402-9741
Phone: 262-639-7327, e-mail: wa9jmo@wi.net

William Pasternak, WA6ITF

28197 Robin Avenue, Saugus, CA 91350-2066
Phone: 661-296-7180, email: wa6itf@arnewslines.org

Kenneth 'Ken' D. Oelke, VE6AFO

729 Harvest Hills Drive NE, Calgary, AB, T3K 4R3, Canada
Phone: 403-226-5840, email: ve6afo@3web.net

Ed Yoder, W3YMB

9 Lakeridge Dr., Greensburg, PA 15601-9799
Phone: 724-850-4462, email: edyoder@comcast.net

Past Presidents

John DiBlasi, W2FX (SK)

1947 - 1964

Earl R. Thomas, W2MM (SK)

1965 - 1968

Clarence Seid, W2KW (SK)

1969 - 1971

Barry Goldwater, K7UGA (SK)

1972 - 1973

Frank A. Gunther, W2ALS (SK)

1974 - 1977

Harry S. Gartsman, W6ATC

1978 - 1981

Stuart Meyer, W2GHK (SK)

1982 - 1985

Leland Smith, W5KL (SK)

1986 - 1989

Harry Dannels, W2HD

1989 - 1994

Lew McCoy, W1ICP (SK)

1994 - 1996

John Kelleher, W4ZC (SK)

1996 - 1998

Gary R. Harrison, K0BC

1998 - 2002

Croft Taylor, VE3CT

2002 - 2004

Executive Secretary/ General Manager

Ralph Barber, W2ZM (SK)

1955 - 1964

Gus Gironda, W2JE (SK)

1965 - 1973

Ethel Smith, K4LMB (SK)

1974 - 1976

Ted Heithecker, W5EJ (SK)

1976 - 1991

Jim Walsh, W7LVN (SK)

1991 - 2003

The QCWA Journal

The Quarter Century Wireless Association and QCWA JOURNAL in no way warrant the products described or reviewed herein. The JOURNAL does not assume responsibility for unsolicited manuscripts. Subscription to the JOURNAL for non-members in the U.S. is available for \$25 per year. Contact the business office for subscription information. The JOURNAL is available free to blind paid-up members on audio cassette tape. For more information, contact Vic Culver, W4VIC, 1020 Lyndhurst, Virginia Beach, VA 23464.



Winter 2007

Greetings members! It's that time again. You should be making your Chapter plans for the New Year 2008. Your Chapter will enjoy better programs when you have such a plan around which you can obtain interesting speakers and arrange for field trips.

Your first official gathering will probably be your official Annual Meeting. Next, there are some important dates to avoid: Blackout October 3, 4, 5. That's when you will be at the beautiful seaside in Virginia Beach, Virginia, for our QCWA Convention, hosted by Tidewater Chapter #119. Save May 16, 17 and 18 for the great Dayton Hamvention. We want to greet all of you there at our QCWA booth and at our Friday QCWA dinner hosted by our Southwest Ohio Chapter #9.

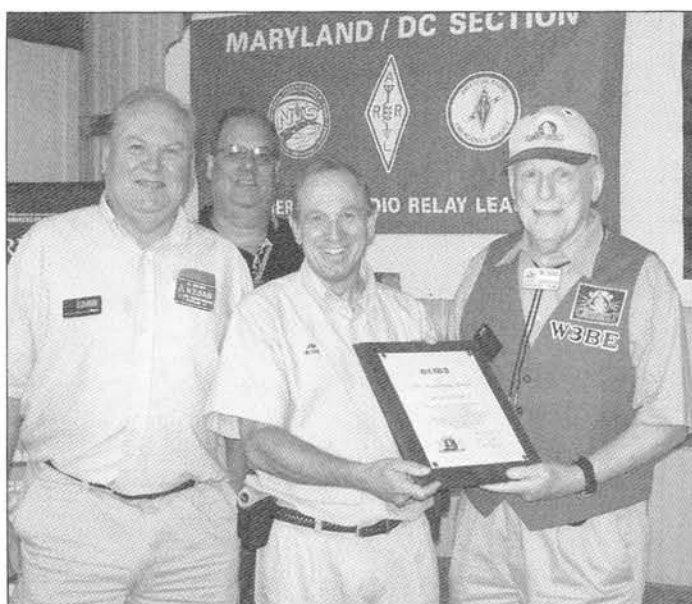
Add to your schedule the flying of our banner at your local hamfests. Many hamfest sponsors will provide a table gratis for a QCWA Chapter. This makes a fine rallying point for our members and prospective members. It is our best opportunity to explain to our amateur service community just what our Association is all about. You can invite those first licensed anytime before 1984 to become a part of it. Explain to them that our QCWA is a celebration by their fellow hams who understand their valuable contribution to our fabulous hobby. QCWA is a lot of fun and we do good work. Let them know that they will become friends with interesting hams who under-

stand and appreciate what amateur radio has accomplished. SECTION 97.1 ALL STARS FOR 2008.

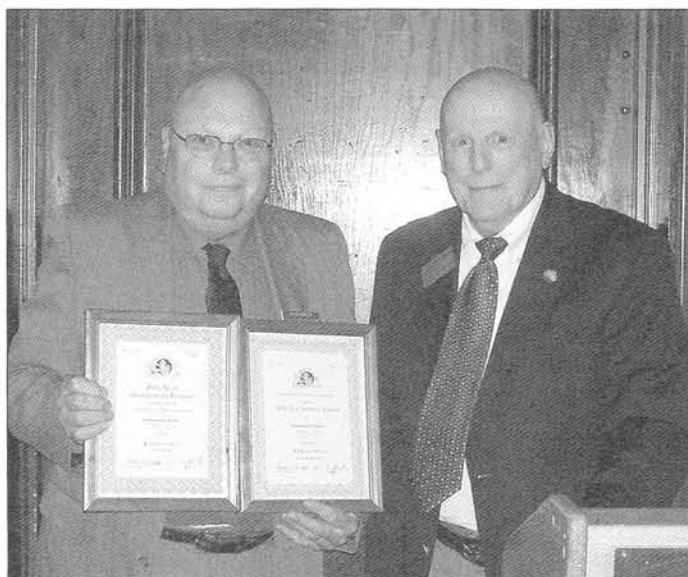
It is also time to call for your Chapter's nominations for our QCWA Section 97.1 Presidential Honors Awards for 2008. Five of these awards will be selected by April 1, 2008, and will be announced in our summer 2008 QCWA JOURNAL. For your nominee to be considered, please submit, before March 15, 2008, your nomination to Director Harrison, WB0OUM, POB 467, Bolivar, MO 65613. Carolyn is the Chairman of our Chapter Relations Standing Committee that is administering this program.

On January 31, 1951, our Federal Communications Commission placed into our operating rules a statement of the type of amateur radio service it expects us to provide in return for being allowed to make use of some highly valuable radio spectrum. This statement of basis and purpose did not come from any international body. It applies only to the places where the FCC regulates the amateur service. The statement survives today in Section 97.1 of our rules. It is important that we pause annually to reflect upon just whom it is among our fellow members that we admire as our role models in helping to fulfill each of these five principles during the previous year. They are our Section 97.1 All-Stars. We are indebted to them for what they are doing and for reminding us of our wonderful privileges

(continued on next page)



Jim Cross, WI3N, ARRL Section Manager, Maryland-DC, receives the President's 2006 Section 97.1(a) All Star Award for service to the public as a voluntary non-commercial communication service, particularly with respect to providing emergency communications. In attendance were Al Brown, KZ3AB (l), and Bill Dobson, N3WD.



Dick Goslee, KG2I, celebrated banquet emcee at the Rochester Hamfest Computer and Hobby Show and past RaRa Club President receives QCWA 50-Year Awards.

The Quarter Century Wireless Association

The Quarter Century Wireless Association, Inc. was founded December 5, 1947, as a non-commercial association of radio amateurs organized for the promotion of interest in Amateur Radio communication and experimentation, for the establishment and advancement of the radio art and of the public welfare.

QCWA is an incorporated association without capital stock chartered under the laws of the State of New York, and is a tax exempt 501(C)3 organization under the Internal Revenue Code of 1986.

Its affairs are governed by a President, Vice President, Secretary, Treasurer and a Board of Directors, whose voting members are elected every two years by the general membership.

In order to qualify for membership in QCWA one must have demonstrable proof of having been first licensed as an Amateur Radio operator at least 25 years prior to application for membership and must be currently licensed. Membership inquiries and general correspondence should be addressed to the business office at P.O. Box 3247, Framingham, MA 01705-3247 U.S.A. Telephone: 508-405-1930 FAX: 508-405-1965



From The President (continued)

in making use of an increasingly valuable public resource.

Chapters: Here is the call for your nominations. Include with the name and call sign of your nominee, the specific award for which you are making your nomination and a statement of your reasons for making your nomination. There are five Presidential Honor Awards to be presented. They are:

- 1. Section 97.1(a) For service to the public as a voluntary noncommercial communication service, particularly with respect to providing emergency communications.**
- 2. Section 97.1(b) For continuing and extending the amateur operator's proven ability to contribute to the advancement of the radio art.**
- 3. Section 97.1 (c) For advancing skills in both the communication and technical phases of the radio arts.**
- 4. Section 97.1(d) For expanding the existing reservoir within our amateur service of trained operators, technicians and electronic experts.**
- 5. Section 97.1(e) For continuing and extending the amateur operator's unique ability to enhance international goodwill.**

This is your opportunity to recognize a deserving QCWA member in your Chapter for helping make amateur radio the greatest hobby in the World. It is our way of thanking them for helping prove that it is truly in the public interest to allow persons interested in radio technology solely with a personal aim and without pecuniary interest to make use of highly valuable electromagnetic spectrum for carrying out self-training, intercommunication and technical investigations.

Here's to another great QCWA year!

DE W3BE

GENERAL MANAGER'S Report

Chuck Walbridge, K1IGD



Winter 2007

2007 CONVENTION – DENVER, CO: All reports, from those attending the Annual Convention at Denver, indicate that it was a very pleasurable event. Jan and I enjoyed meeting the many members with whom we speak on the phone or exchange e-mails. Information for the 2008 Convention, to be held in Virginia Beach, VA is included in this issue. Start your planning now for fall 2008.

2008 ELECTION – Listed in this issue are the names from the Nominating Committee for the 2008 Officer/Director election. A photo and brief statement from each candidate will be in the spring Journal. Any approved candidate petitions sent to Headquarters will also be listed in the spring issue. Ballots will be mailed by April 1 and are due back to the tellers by July 15, 2008.

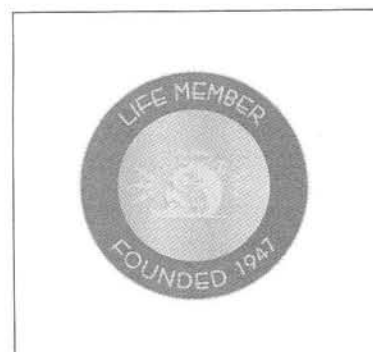
SCHOLARSHIP PROGRAM – The Board of Directors approved the recommendation from the Scholarship Chairman, Leland Smith, Jr., W4YE, to award a total of \$19,700 in scholarships for 2008! Through contributions from QCWA Chapters, members and friends of Silent Keys, QCWA has been able to award over \$240,000 in scholarships to deserving college students. This has been accomplished with the support of the Foundation for Amateur Radio who selects the winners for the awards.

NEW LIFE MEMBER PIN – Our supply of Life Member pins was virtually exhausted so it was time to re-design the pin and find a new supplier. The graphic below shows the pin, which is currently available from the office. The price remains at \$8 each.

Jan and I want to wish all of you good health and the best for the Holiday Season!
73, Chuck and Jan



The photo shows our Officers/Directors at the meeting in Denver. Seated, left to right, are: Treasurer, Frank Harris, WA4PAM; President, John B. Johnson, W3BE; Vice-President, Len Nathanson, W8RC; Secretary, Walt Supina, N3WS. Standing, left to right, Directors: Leroy Baldwin, WOOFY; William Pasternak, WA6ITF; Val Erwin, W5PUT; Carolyn Harrison, WB0OUM; Larry McCalvy, WA9JMO; Ed Yoder, W3YMB; Ken Oelke, VE6AFO; Tony Hirsch, W8RSH.
(Photo: Camera by WA9JMO, photo by K1IGD)



The new, stylish and re-designed Life Member Pin. A one-inch pin with a gold center and blue rim. Only \$8.00. Order one today! (not shown actual size).

Hello!

Is Anyone Out There?

This article appeared in the summer 2007 issue of the QCWA Journal and the response has been less than stellar. Please read this article and respond. If you need help, ask someone from a local chapter or the ham next door.

It's become more and more apparent over the past several years that QCWA is losing history right before our eyes. This was driven home again when I received notice that Dwight, W2ATM had become a Silent Key. Dwight was QCWA Member # 2117.

All I received was a copy of his obituary which was very sparse concerning his amateur experience. After a Google search on W2ATM I was able to pull together more information on Dwight and add it to his QCWA SK webpage. I've had the honor of posting 176 SK pages thus far and it's time to take the next step. It's time we start honoring our members while they are still among us.

I want biographies and pictures (high school, college, wedding, 1st birthday, and current would be nice) of QCWA members that have membership numbers lower than 10,000 or are over 80 years old or are in failing health. You may also include QSL cards, pictures of your station (include an equipment list), almost anything that pertains to your Ham experience. I'd like the bios as a word doc or a text file. It would be nice for the pictures and QSL cards to be in digital format but I do have a scanner. Include a SASE if you want the pictures returned.

In the future, we'll seek out the next group of younger members.

Submit everything to me at brose@hutchtel.net

<http://www.qcwa.org/silent-keys-date.htm>

<http://www.qcwa.org/our-living-heritage-qcwa-number.htm>

tnx es 73,

Bob, N0UF, QCWA Webmaster

The Foundation for Amateur Radio, Inc.

QCWA Scholarship Winners

QCWA Named Memorial Scholarships — 3@ \$1200.00 each

Ralph Hasslinger (W2CVF) Charter Member Scholarship

Stephen Simpson, KC8IOY, Ocala, FL

Leland Smith, Sr. (W5KL) Memorial Scholarship

Rebecca Rich, KB0VVT, Raytown, MO

Travis Baird (W9VQD) Memorial Scholarship

Charles Johnson, N3HX, New Castle, PA

QCWA Named Memorial Scholarships — 5@ \$1000.00 each

Robert Cresap (W9LRI) Memorial Scholarship

Allison Dryer, KD5IVO, DeSoto, TX

Donald & Phyllis Doughty Family Scholarship

Bryce T. Salmi, KB1LQC, Chelmsford, MA

Jacobson-Kelleher Family (W3DUG - W4ZC) Scholarship

Jonathan Troup, K0DE, Berthoud, CO

Leo Meyerson (W0GFQ) Family Living Scholarship

Francis T. Gradjan, KD5HTB, Carrollton, TX

Edwin P. Woodruff (W3SX) Memorial Scholarship

Brenton J. Salmi, KB1LQD, Chelmsford, MA

QCWA Silent Key Memorial Scholarships — 10@ \$1000.00 each

Daniel Ellis, KG4IVC, Pikeville, NC

Nathaniel Heatwole, WZ3AR, Damascus, MD

Alexander Jasper, KB9TTO, Plover, WI

Amy Johnson, KB3HXF, New Castle, PA

Carolyn R. Krick, KA9APT, Golden Valley, AZ

Kerry Manderbach, KC0VNH, St Louis, MO

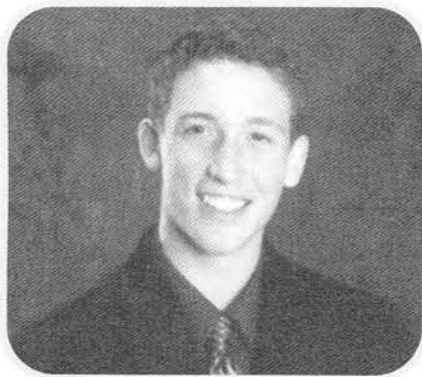
Robert Rikard, KG4MBQ, New Bern, NC

Stephanie Schaefer, KC2NSA, Binghamton, NY

Deanna Tucker, KE5JBQ, Yukon, OK

Jonathan Van Norman, KC0ORR, Rochester, MN

QCWA Congratulates Our Scholarship Winners for 2007!



Jonathan Troup, KODE

Jonathan Troup, KODE

Jonathan is a 20-year old Amateur Extra currently attending Colorado State University as a senior Mathematics Major. He plans to graduate this spring, and is currently looking for a graduate school at which to earn his PhD. He heard about amateur radio through his family and shortly after receiving his novice license, discovered an amateur radio club for kids called BARC Jr. This organization helped him earn his extra within the same year, when he was 12 years old. Jonathan still greatly enjoys ham radio contests and Morse code.



Carolyn Krick, KA9APT

Carolyn R. Krick, KA9APT

I am currently pursuing a Bachelor's Degree in Special Education through Prescott College, Prescott, Arizona; I'm also taking courses for Speech and Language Therapy assistant through Northern Arizona University, Flagstaff, Arizona. After graduation, I am planning to teach Special Education at Mohave High School, in Bullhead City, Arizona where I have been employed as a Paraprofessional Aide, since January of 1993. I currently work as Speech and Language Therapy Aide, and hope to use Ham Radio as a teaching tool for providing services to my Speech Therapy students. I am also in the process of starting Radio-Active Amateur Radio Club of Mohave High School and hope to one day teach the Ham Radio Curriculum of the ARRL.

Our family is very active in ham radio. Husband, Fred (N7FK), participates daily on several of the traffic nets, including the High Noon Net on 40 meters. Older son, Paul (KC7GRZ), and younger son, Matthew (K3MK), are active on several of the bands and keep our local repeater system between Bullhead City and Kingman, Arizona on the air.



Rebecca Rich, KB0VVT

Rebecca Rich, KB0VVT

Rebecca is currently a sophomore at the Massachusetts Institute of Technology, studying electrical engineering and mathematics. From Kansas City, Missouri, she was first licensed in 1996 at the age of seven, and she received her Extra ticket when she was eight years old. Over the years she has developed a love for CW operating and amateur radio contesting - particularly the ARRL November Sweepstakes and Field Day! She was awarded the 2004 Hiram Percy Maxim Memorial Award for her dedication to amateur radio, academics, and community. In 2006, she was a valued member of the Multi-two team at PJ2T for the ARRL DX SSB contest. Also in 2006, she set the all-time record in the school category for the ARRL November Sweepstakes CW contest. Presently, she operates MIT'S W1MX station for the ARRL November Sweepstakes, acts as a Volunteer Examiner, participates in the Raytown Amateur Radio Club's Field Day, and helps teach Boy Scout Radio Merit Badge classes.



Bryce Salmi, KB1LQC

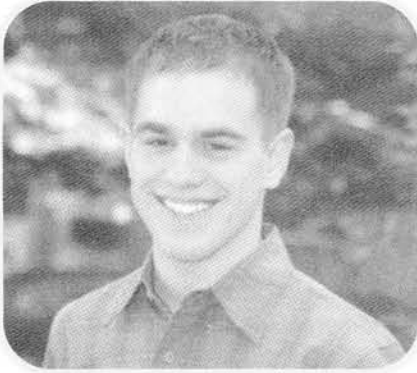
Bryce T. Salmi, KB1LQC

Amateur radio is special to me because of the opportunities it allows me to obtain and explore my interests. I obtained my Technician license with code credit when I was a Sophomore in Chelmsford High School, and by my Junior year I was an amateur Extra licensee.

I decided to co-found the Chelmsford High School Amateur Radio Club KB1NAY in my Junior year with Mr. Steeves (KB1MKW), a physics teacher at CHS. I also helped write a grant for the ARRL Big Project Education and Technology Program which gave us a free station from the ARRL to use. The club meets once per week and operates on the HF and VHF bands, participate in talks, and even hold building sessions for club projects.

My main interest in amateur radio besides helping others enjoy the hobby, has been operating CW/SSB/digital on the HF/VHF/UHF bands. Recently, my interests have moved into the microwave bands where I find much to be learned, built, and explored.

I'll be on the radio this fall from R.I.T. Amateur Radio Station K2GXT Rochester Institute of Technology



Brenton Salmi, KB1LQD

Brenton J. Salmi, KB1LQD

After receiving my license a few years ago I have experienced many joys of amateur radio. I began to become interested in amateur radio and found that it was a hobby that gave me opportunities to learn more about electronics as well as have some fun talking to others at the same time. Throughout the beginning of my journey through amateur radio I experimented with the popular HF bands on an HW-101 that was given to me by my uncle (W1DOG) and refurbished with the help of my neighbor (W1XH). I made hundreds of contacts (Mostly CW). Since then I operate on a Yaesu FT-897 and other homebrew equipment. I am a very active experimenter and can usually be found building some project around the shop. Outside of amateur radio I am very active as well. I enjoy mountain biking and other outdoor activities as well as playing the drum set.

Amateur radio has given me numerous friends and great opportunities, for which I am extremely appreciative. I will strive to contribute my involvement in the hobby and do my best to contribute my efforts.

Hope to catch QCWA members on the air from R.I.T Station K2GX.



Amy Johnson, KB3HXF

Amy Johnson, KB3HXF

Amy of New Castle, Pa is currently pursuing a Masters in Sport Management at Robert Morris University in Moon Township, Pa. After receiving her Bachelors of Science in Education from Geneva College in Beaver Falls, Pa., in May 2007, she is a PA certified Elementary and Middle School Math teacher. She is the daughter of Chuck Johnson, N3ETV and Jean Johnson, K3KFC, and the sister of Chuck Johnson, N3HX all of New Castle, Pa.



Alexander S. Jasper, KB9TTO

Alexander S. Jasper, KB9TTO

My name is Alex Jasper, KB9TTO, and I am 18 years old. I have been involved in Amateur Radio since I was about 9 years old. My dad had the biggest impact on my decision to get my license. I remember spending hours learning Morse code using a computer program in order to get my Novice license. I also remember doing numerous contests along side of him, including several Wisconsin QSO Parties, and making several trips to W0AIH for contests which were a lot of fun. I attended Pacelli High School and was part of the golf team that won state in Division 3. I also made the All-Conference Team in cross country. I will be attending the University of Minnesota - Twin Cities this fall for some kind of engineering major, most likely Chemical Engineering.

Jonathan Van Norman, KC0ORR

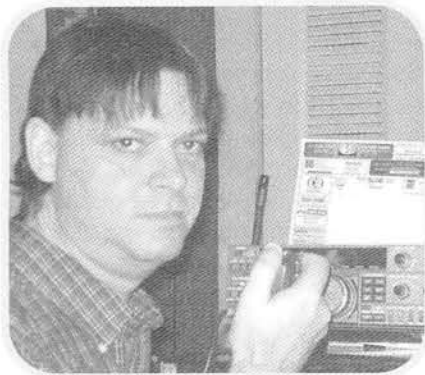
Jonathan is the son of Eric & Mary Van Norman and is from Rochester, Minnesota. Jonathan is a fourth generation ham radio operator. Jonathan enjoys participating in numerous ham radio events with the Rochester Amateur Radio Club: Field Day, Jamboree on the Air, providing communications for bike races, marathons, parades, cancer walks, etc. Jonathan is currently attending Purdue University where he is studying Accounting, Finance, and Business Management. Jonathan participates in the Purdue Amateur Radio Club, W9YB, providing radio help for the Purdue Outing Club Adventure Race, fox hunts, and trying to promote a weekly net on the W9YB repeater. At Purdue University, Jonathan has been involved with the Debris Yearbook, Disc Golf Club, a member of the Purdue Grand Prix Foundation and Fleet Captain of the Purdue Sailing Club. Outside of school, Jonathan has worked as a Guest Service Team Member for Target over the past 3 years, and is a member of the Knights of Columbus.



Jonathan Van Norman, KC0ORR

Kerry Manderbach, KCOVNH

I'm an adult student who has gotten a second chance for a higher education. I originally went to college at the age of 18, without much direction or enthusiasm. I was too immature to appreciate the value of a college degree. After a year or so, I left and went into the working world.



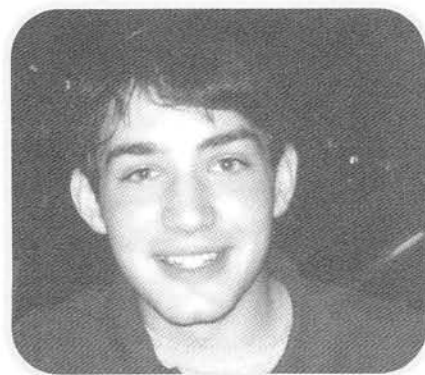
Kerry Manderbach, KC0VNH



Stephanie Schaefer, KC2NSA



Stephen T. Simpson, KC8IOY



Francis T. Gradjian, KD5HTB

Over the years, I watched people with degrees pass me by on the ladder to success. I thought about going back to school from time to time, but never followed through. I was raising a family, and money was in short supply. Then I became ill, and couldn't work in my old job. I had to do something.

Going back to college was one of the best things I ever did, and The QCWA has helped make my dream come true! I'm an honor student, a member of the student radio station, and I'm on the Dean's List.

Stephanie Schaefer, KC2NSA

Stephanie is a 19-year-old sophomore at Marywood University studying Elementary Education with a concentration in Music, minor in Mathematics, and citation in Honors. She inspired her mother to receive her amateur license this year. At Marywood University, she is a part of Wind Ensemble, Percussion Ensemble, Orchestra, America Reads, Volunteers in Action, Music Ministry, and Peers on Wellness. She takes part in many service activities on campus and is still active in the Girl Scouts of America. All family members are hams, including her father, Andrew Schaefer (W3SW), mother, Karen Schaefer (WA3WKA), and brother, Andrew F. Schaefer (KB2ZWZ). She upgraded to her General License this year and is enjoying its different operating privileges. Her QCWA sponsor is Bill Thompson, W2MTA, #18792.

Stephen Simpson, KC8IOY

Stephen is an 18 year-old student currently studying for a Bachelor of Science degree in Computer Engineering at the University of Florida, where he is a third year engineering student. He transferred from Central Florida Community College after receiving an Associate of Arts degree, along with Associate of Science degrees in Computer Engineering Technology, Computer Information Technology, and Internet Services Technology. Stephen was first licensed as a Technician when he was 8 years old, and presently holds a General class license. Stephen serves as webmaster for the Friendship Amateur Radio Club, of which he is a member, and also serves as webmaster for the Ocala Chapter 62 QCWA. He is the son of W8EK and N8AJU, and grandson of WA8ETW.

Francis Gradjian, KD5HTB

Francis is a General class Amateur Radio Operator, first licensed in 1999. He remains most active on six meters. At the University of Scranton, in Scranton, Pennsylvania, he is a senior Political Science and International Studies double major. While maintaining a 3.94 GPA, he serves as the opinions section editor of the school newspaper; is president of a campus political club; is editor-in-chief of a campus political science journal; has worked as a campus tour guide; been a campus radio disc jockey; and was president and founder of The International Politics Club - a Model-UN organization with over twenty members.

He has a keen interest in international affairs, and just completed a year spent studying abroad in Beijing, China. During his travels inside China, he has climbed holy Daoist mountains, spent nights in yurts, in Tibetan villages, and sleeping on wooden planks while hogs rest below. He has spoken with Chinese who remember the days before 1949, and studied a great deal of the Chinese language and Chinese politics. On returning to the United States, Francis served an internship in the Washington, DC senate office of Texas Senator Kay Bailey Hutchison, the senior Senator from Texas. Previously, he had served in an internship in the Pennsylvania Bureau of Workers' Compensation and looks forward to continuing his career of public service.



Allison Dryer, KD5IVO

Allison N. Dryer, KD5IVO

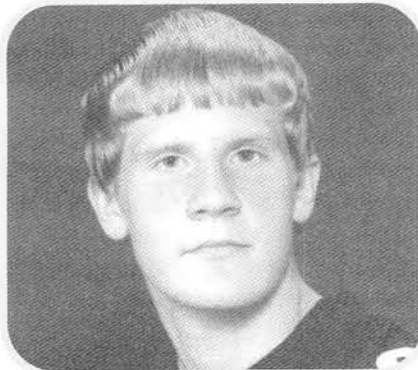
I was born and raised in DeSoto, Texas, and attended both Merrywood School and Ovilla Christian School. For a science fair project in elementary school, I took on the challenge of getting my Ham radio license. I passed the Novice, Tech, and General class tests by age eleven. I became a member of South West Dallas County Amateur Radio Club, and from then on, Amateur Radio became an integral part in my personal and family life. With both parents hams, our family has always been participating in random and annual club and community events, ranging from Field Day to the Dallas County Health and Human Services Medical Reserve Corps bioterrorism drills. In addition to this, my hobbies have been competitive piano, soccer, softball, ultimate frisbee, church, reading, writing, and art. I am currently a pre-pharmacy major at the University of Texas at Arlington, and I will be applying to pharmacy school this year. I would like to thank God, Dad, Mom, my sister, and SWDCARC (my other family) for their unfailing support through the years as I've grown up.



Deanna Tucker, KE5JBQ

Deanna Tucker, KE5JBQ

Deanna is an 18 year old Technician Class college freshman presently attending the University of Central Oklahoma in Edmond, Oklahoma, majoring in Education. Her plans are to be a marketing education high school teacher upon graduation. Through her high school years, Deanna has been in the band, color guard, DECA historian and chaplain, church orchestra and this last year also worked at a local coffee bar. Deanna has taken classes with me National Weather Service for severe weather spotting and has participated in tornado/storm chasing with her dad, Ron, K5IGB, for many years. She is a member of the ARRL and Mid Oklahoma Repeater Inc. club in Oklahoma City. Deanna is part of a nearly all ham family consisting of her dad, Ron, K5IGB, sister Amy, KC5RPL, sister Sharin, KE5PRA, brother-in-law, Ace, KE5PQZ and her uncle Stan, KD5JSF. Deanna is very proud and thankful for receiving the QCWA Scholarship.



Charles Johnson, N3HX

Chuck Johnson, N3HX

My name is Chuck Johnson and I am an Extra class Volunteer Examiner. I mostly operate on 2 meter while in school, but occasionally I will operate on twenty or forty meter HF bands. A few of the other activities I take part in are going to events such as concerts, hanging out with friends, and when called to serve, firefighting, for the South New Castle Boro VFD. I am attending Robert Morris University for the second year majoring in Information Systems Management. I am expected to graduate in the year 2010 with a Bachelor's degree. After I complete the four years I will be going back to school for a Masters Degree in Computer Science. Once I have fully completed my degree I would like to land a job in a school district managing the computer networks.



Nathaniel Heatwole, WZ3AR

Nathaniel Heatwole, WZ3AR

Like many hams, I started out in CB radio and I often monitored the ham bands, eventually getting licensed myself. Not long afterward, N3RR invited my Dad and me to tour his elaborate contesting station, an experience which sparked my interest in contesting. Several months later, another local contester, K3LP, invited me to participate in an upcoming multi-op in a contest at his QTH. And in time, with Dave's gentle pressure, I soon joined the Potomac Valley Radio Club (PVRC), the mid-Atlantic region's premier contest club. While my school commitments limit my operating, I do participate regularly in Field Day and the IARU and IOTA contests. I am also an active DXer and paper chaser and have earned DXCC, 5BWAS, IOTA, 5BWAC, WPX, and USA-CA. Currently, I am enrolled in the Ph.D. program in Engineering and Public Policy at Carnegie Mellon University in Pittsburgh, PA.



The Rules Say... Q&A

John B. Johnston, W3BE, 17701 Bowie Mill Road, Derwood, MD 20855-1608

PLEASE CLARIFY

Q. Please clarify the difference between "operating" and "being the control operator of" an amateur station. The confusion comes when the word "operate" is misused. We all generally say as we sit in front of our rigs that we're "operating." So when I let my next door neighbor talk over my rig, it is he who is sitting there doing what we all do: operating. Of course, in this context, the neighbor is NOT operating.

W3BE-O-GRAM: Cut back on your overuse of that ambiguous "O-word." Excessive immoderation of same can impair your ability to read and heed our FCC rules.

A. Section 97.7 says, when transmitting, each amateur station must have a control operator. The control operator must be a person for whom an amateur operator/primary station license grant appears on the ULS consolidated licensee database, or who is authorized for alien reciprocal operation. Section 97.105 says that a station may only be operated in the manner and to the extent permitted by the privileges authorized for the class of operator license held by the control operator.

Your view is that your next door neighbor (who apparently is not a ham) is "operating" but not "being the control operator of your station" when you let him communicate via your station. Stick with the term "control operator" as defined in Section 97.3(a)(13): the control operator is an amateur operator designated by the licensee of a station to be responsible for the transmissions from that station to assure compliance with the FCC Rules.

Before your station transmits on an amateur service band, the station licensee (you) has to decide just who will be its control operator (you or your neighbor.) Unless your neighbor holds an amateur operator license grant, he cannot be the control operator of any FCC-licensed amateur station.

Q. What are the duties of the control operator?

A. Section 97.105(a) says that the control operator must ensure the immediate proper operation of the station, regardless of the type of control.

W3BE-O-GRAM: My BE Informed No. 1 W3BE CHECK-LISTS goes into detail about the duties of the control

operator and those of the station licensee. It is available free from <http://w3be.home.att.net/>.

Q. I thought that a licensee could operate on frequencies outside of his/her privileges, as long as a control operator with the proper class of license was present and overseeing the entire operation. Is there ever a time or situation that a licensee can operate outside of his/her assigned bands?

A. Think again. Unless there is no other option for summoning help when in legitimate distress, there is never an occasion that any person can be the control operator of a station transmitting outside the frequency bands authorized in Section 97.301 for the class of operator license held.

When a person is participating in stating the message as a third party under the authority of Section 97.115(b), the fact that the person may hold an amateur operator license grant is beside the point. No third-party – even one that holds an amateur operator license – can be the control operator of an amateur station.

Note, moreover, Section 97.115(b)(2) says the third party must not be a prior amateur service licensee whose license was revoked; suspended for less than the balance of the license term and the suspension is still in effect; suspended for the balance of the license term and re-licensing has not taken place; or surrendered for cancellation following notice of revocation, suspension or monetary forfeiture proceedings. The third party may not be the subject of a cease and desist order which relates to amateur service operation and which is still in effect.

The rules, therefore, make a clear distinction between the control operator of an amateur station and a third party who is merely participating in stating a third party message during a transmission.

Q. How far from the station control point may the control operator be while continuously monitoring and supervising an unlicensed third party operator's participation in stating the message?

A. Section 97.3(a)(14) says the control point is the location at which the control operator function is performed.

W3BE-O-GRAM: The word "point" usually refers to a narrowly localized place having a precisely indicated

position. In this context, good amateur practice requires that the control operator be situated such as to be able to exercise proper judgment while doing those things that the control operator does: view and interpret all indicators showing the status of the regulated transmitting parameters; manipulate appropriately the apparatus dials and switches controlling of these parameters; ensure that the message content of each transmission is appropriate for the amateur service; making certain that the channel is not already occupied before transmitting; etc.

Q. Section 97.113(a)(5) says no amateur station shall transmit communications, on a regular basis, which could reasonably be furnished alternatively through other radio services. Does this mean because I have a cell phone and internet connection, that I can not ham?

A. It means what it says. As long as your communications passes My BE Informed No. 3 SECTION 97.113 SMELL TEST, available free from <http://w3be.home.att.net/>, you should be good to go.

W3BE-O-GRAM: The terms "on a regular basis" and "reasonably," require us to make the judgments about how each communication our stations transmit reflects upon the legitimacy of our radio service. It is risky to venture outside the purpose of our hobby by misusing our allocation to compete with the legitimate providers, many of whom have paid billions of dollars for their spectrum allocation. Don't compromise our argument for being allocated spectrum for the purpose of - as it says in Section 97.3(a)(4) - a radiocommunication service for the purpose of self-training, intercommunication and technical investigations carried out by amateurs, that is, duly authorized persons interested in radio technique solely with a personal aim and without pecuniary interest.

Q. I just moved to San Diego and am unable to find the latest info on changing my address. Please forward this postcard to the FCC.

A. That was done, but it is not all that simple. Refer to my October 2005 column for step-by-step instructions for doing this.

W3BE-O-GRAM: You owe me for postage.

Q. What privileges does an operator have when using a special event 1x1 call sign properly assigned?

A. Exactly the same as when the control operator of any FCC-licensed amateur station. Read and heed Section 97.301, Authorized frequency bands.

Section 97.119(d) says that when transmitting in conjunction with an event of special significance, a station

may substitute for its assigned call sign a special event call sign as shown for that station for that period of time on the common data base coordinated, maintained and disseminated by the special event call sign data base coordinators. Additionally, the station must transmit its assigned call sign at least once per hour during such transmissions.

Q. I am the Trustee of our club station. For an upcoming community event, one of our members looked into applying for a 1x1 call sign. A few weeks later, he reported that it had been granted - to him! This was confirmed by the listing on the on the NCVEC website with my mailing address, but with his E-mail and telephone number. What gives?

A. Section 97.3(a)(11)(iii) says that the special event call sign is selected by the station licensee. To administer this system properly, therefore, the SECSC should have confirmed that the special event call sign selector (you) is also the corresponding station license grantee (also you.)

W3BE-O-GRAM: All coordinators were advised of your confidence-shattering experience. Presumably, the system will be administered properly from now on.

Q. Just who are these 1x1 call sign coordinators?

A. Section 97.3(a)(11)(iii) says that the FCC will issue public announcements detailing the procedures of the special event call sign system. At <http://wireless.fcc.gov/>, click on [amateur]. Under [Call Sign Systems], click on [Special Event]. There is where the FCC-certified SECSCs are listed.

Q. Suppose I let you operate my station using the Special Event call sign assigned to my station with me as the control operator. How often must you identify using your assigned call sign?

A. Never ever, because the SECSC data base would show your station as the one for which the special event call sign is being substituted during that period of time. "My" call sign, W3BE, is actually assigned to my station, not to me as an amateur operator.

W3BE-O-GRAM: Beside, you imply that the SECSC designated you as the control operator. Nope! Section 97.103(b) gives the control operator designation privilege solely to the station licensee, not to any SECSC.

Q. How often must you identify while using my 1x1 call sign?

A. Were you to designate me as your station's control operator, under Section 97.119(a), it would be my duty to cause or allow your station to transmit the substituted call sign at least every 10 minutes. Additionally, under Section

97.119(d), it would be my duty to cause or allow your station to also transmit the call sign shown for it on the ULS license grant at least once per hour during such special event station transmissions.

Q. If the special event station's "regular" control operator isn't present; can't the control operator sign his or her call sign?

A. Not according to the rules. Section 97.119(d) authorizes "a" (that means one) station for the substituting.

Q. Is it reasonable to interpret Section 97.119(d) as requiring the hourly identification to be the call sign held by the person applying for the special event call sign, who might not be the control operator, and might not even be at the station?

A. Yes, assuming it was the station licensee who selected the special event call sign.

Q. I have been at the Advanced level for a long time. I want to go for the Amateur Extra Class license, but the upgrade manuals only go from General class to Extra class. Since I have already passed part of element 4, I should only have to pass the rest of it. Do you know how to do this?

A. Sorry, but no. Section 97.505(a)(1) does not authorize administering VEs to give partial Element 4 credit for holding an Advanced Class operator license.

W3BE-O-GRAM: Study and go for it!

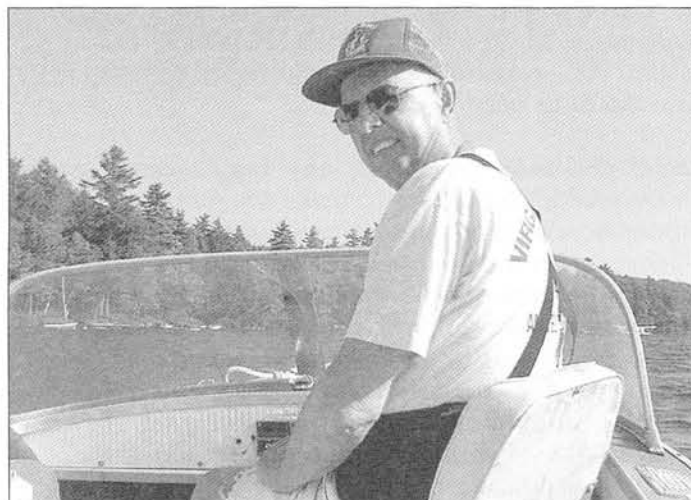
APPRECIATION

Our R&R Superham-of-the-Month is Charlie Chapman, W1WTG, from our Tidewater (VA) Chapter No. #119 and Pine Tree (ME) Chapter No. #134.

Thank you, Chappy, for your dedication in bringing to bear your valuable expertise with the great Virginia Beach Hamfest. We're looking forward to a great QCWA Convention there next fall.

Read the rules - Heed the rules at www.gpoaccess.gov/ecfr/. Click on [Title 47] then on [Part 97]. Also visit <http://wireless.fcc.gov/> and click on [amateur] or [ULS]. Enforcement reports are at <http://www.fcc.gov/eb/AmateurActions/welcome.html>.

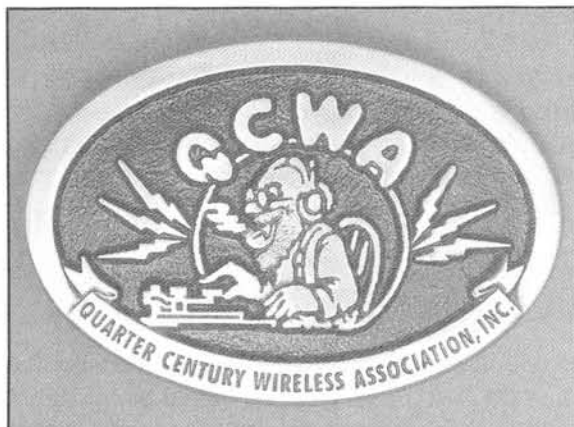
Have a question about the amateur service rules? Visit <http://w3be.home.att.net/>; or e-mail john@johnston.net.



Superham-of-the-Month is Charlie Chapman, W1WTG

QCWA Belt Buckle!

Available in two finishes:
Brass/Gold or Pewter/Silver

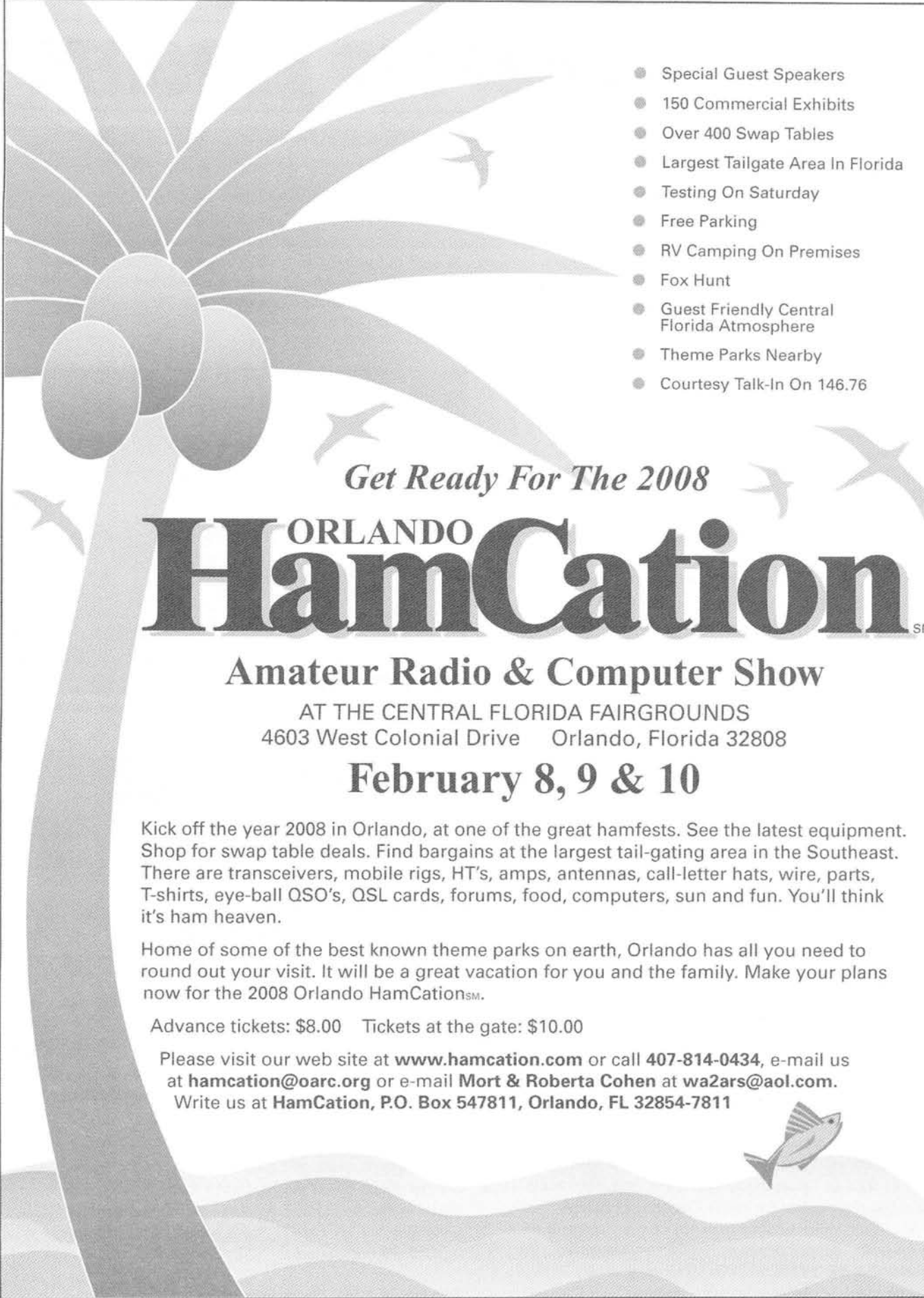


Buckle size is 3 1/2" x 2 1/2"

QCWA Belt Buckle ORDER FORM

Name: _____ Call: _____
Address: _____ Zip: _____
City: _____ State: _____
QCWA Chapter # _____ National Member # _____
Phone _____ Email: _____
Quantity Brass/Gold? _____ Quantity Pewter/Silver? _____

Each buckle is \$24.95 (US) plus \$4.00 (US) Shipping and Handling
Mail your order to: QCWA, P.O. Box 1641, Pottsville, TX 75076
Phone: (903)-786-4046 • email: QCWA@texoma.net
Allow 4 weeks for delivery via USPS

- 
- Special Guest Speakers
 - 150 Commercial Exhibits
 - Over 400 Swap Tables
 - Largest Tailgate Area In Florida
 - Testing On Saturday
 - Free Parking
 - RV Camping On Premises
 - Fox Hunt
 - Guest Friendly Central Florida Atmosphere
 - Theme Parks Nearby
 - Courtesy Talk-In On 146.76

Get Ready For The 2008

ORLANDO **HamCation**SM

Amateur Radio & Computer Show

AT THE CENTRAL FLORIDA FAIRGROUNDS
4603 West Colonial Drive Orlando, Florida 32808

February 8, 9 & 10

Kick off the year 2008 in Orlando, at one of the great hamfests. See the latest equipment. Shop for swap table deals. Find bargains at the largest tail-gating area in the Southeast. There are transceivers, mobile rigs, HT's, amps, antennas, call-letter hats, wire, parts, T-shirts, eye-ball QSO's, QSL cards, forums, food, computers, sun and fun. You'll think it's ham heaven.

Home of some of the best known theme parks on earth, Orlando has all you need to round out your visit. It will be a great vacation for you and the family. Make your plans now for the 2008 Orlando HamCationSM.

Advance tickets: \$8.00 Tickets at the gate: \$10.00

Please visit our web site at www.hamcation.com or call 407-814-0434, e-mail us at hamcation@oarc.org or e-mail Mort & Roberta Cohen at wa2ars@aol.com.
Write us at HamCation, P.O. Box 547811, Orlando, FL 32854-7811





CHAPTER REPORTS

*Chapter Reports are a very important part of the Journal. We would like to see regular reports from all Chapters. If your Chapter is not represented on these pages, please ask your Secretary to file a special report for the Journal. Please send the reports to Chuck Walbridge, General Manager, to arrive **NO LATER** than the following dates: January 1 for Spring, April 1 for Summer, July 1 for Fall and October 1 for Winter.*

ATTENTION! QCWA Chapter Report Guidelines: All Chapter reports will need to follow these limits set by the Publications Standing Committee: **500 words and two photos maximum.** When taking photos, group together those receiving awards rather than individual photos. Those can always be posted on a Chapter webpage. When a Chapter report is submitted, please include the Chapter number in the title and with any photos submitted. Preferred formats for reports are: Word (.doc), rtf or plain text.

Chapter 1, Cleveland (OH)

A series of special service awards were presented during the Cleveland Chapter's October 13 meeting to those who have demonstrated outstanding efforts on behalf of Amateur Radio and the Chapter.

Special Chapter merit awards were given to Frank Benesh, K8IFH; David Dennis, W8DDD; and Vance Roth, KA8YHZ. The President's Award was presented to Bob Winston, W2THU, Chapter Vice President. The Paul Cornell Memorial Award went to Paul Poling, K8CKG, Chapter Secretary. The QCWA Meritorious Award was received by "Dee" Logan, W1HEO.

Chapter One currently has eleven members who have achieved senior status by virtue of attaining age 90 or more, with the eldest being Joe Zelle, W8FAZ, who is 95. Other members who now enjoy Lifetime Chapter Memberships include K8SLF, W8HFE, W8HXC, W8JZZ, W8MMC, W8OOJ, W8PIU, W8QXF, W8UDG, and WA8FTW.

The year 2008 has been targeted for a special emphasis on recruitment, with Chapter members encouraged to attract new members. Special awards to top recruiters will be given.

D.E. "Dee" Logan, W1HEO, Editor

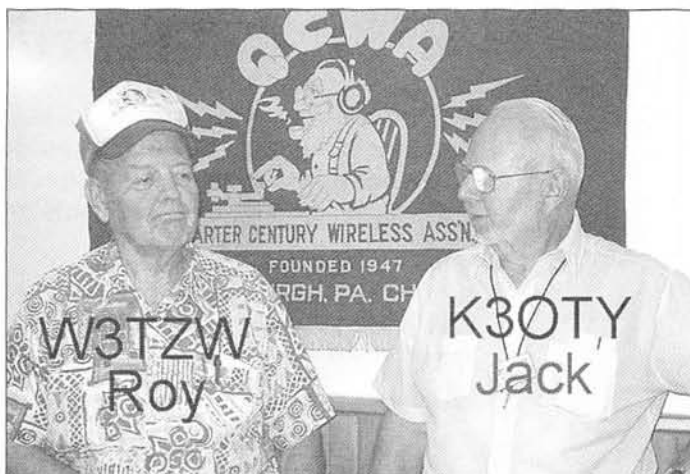
Chapter 6, Pittsburgh (PA)

September 8th marked the quarterly meeting of Pittsburgh's Chapter 6. Pleased with the previous venue at Rocky's II in McKees Rocks, PA, we returned with hopes that Rocky's would not meet the fate of our previous meeting places which have all closed down.

Following our luncheon, the meeting was called to order. The Treasurer's report indicated we remain solvent, and we found ourselves to be free of old business issues. New business items included the re-instatement of incumbent and pro-tem officers for the upcoming term, and a reminder that the annual dues of \$5 will be payable at our year end meeting. That noon-time meeting will be held at Rocky's on December 8, 2007. The final effort of the day was a historical look at the Heath Company of Benton Harbor, Michigan, which was the mainstay of many amateur stations in the past. Several pieces of Heathkit equipment from the "golden years" of the 1950s and 60s spawned a variety of memories and personal recollections from the members.



Roy Repp, W3TZW; Karl Pastorak, WA3VXJ; and Kurt Schreiber, KA3LNG; reminisce over displayed vintage Heathkit equipment.



Chapter 6 Presidents Emeritus Roy Repp, W3TZW, and Jack Parsons, K3OTY, meet again.

Chapter 6 meets on a quarterly basis, and interested amateurs can get details by contacting Brian Roberts, K9VKY, directly, or by checking into the Sunday morning net. That net meets at 0830 prevailing time on 147.03 and is hosted by Bruce Murray, N3GHI. All are welcome.

Brian Roberts, K9VKY, Chapter Scribe

Chapter 10, Michigan (MI)

As 2007 draws to a close, the members of Chapter 10 wish to extend Season's Greetings to all of the QCWA membership, and hope that you have a happy and prosperous New Year in 2008.

We welcome our newest members into Chapter 10: Robert Waters, W8AXR, Westland, MI; Robert J. Oakes, N8BNC, L'Anse, MI; and Thomas J. Liska, K9CJM, Wisconsin Rapids, WI. Our Chapter membership now stands at 128 primary members.

Our annual summer picnic was held on August 15, 2007, at the Kenwood Park in Cadillac, MI, and was attended by 54 members and guests. Following the picnic dinner, the following QCWA awards were presented: Edward Ireland, W8HZF, 55th Anniversary of Licensing; David DeRain, K8ESQ; Stanford Rowe, K6VWE; and Thomas Schoonover, K8BTE, all received their 50th Anniversary of Licensing Award, and their 50 Years of Continuous Licensing Award. Congratulations to all of you.

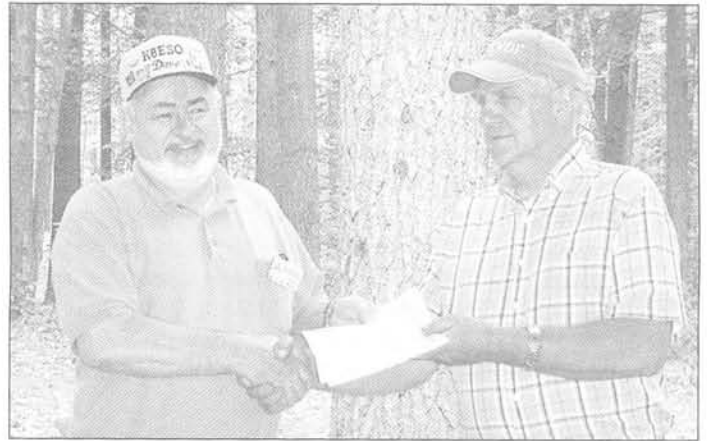
The highlight of our presentations was the presentation of the QCWA President's Award, which was presented to Peter Hansen, W8TWA, for his outstanding contributions to Chapter 10 & QCWA. Congratulations, Pete, for receiving this most prestigious



Peter Hansen, W8TWA, was presented with the 2007 QCWA President's Award by President Doug Almquist, WB8VOF.



Ed Ireland, W8HZF, was presented with his 55th Anniversary Of Licensing Award by President Doug Almquist, WB8VOF.



David DeRain, K8ESQ, was presented with his 50th Anniversary Of Licensing Award and his 50-Years Of Continuous Licensing Award by President Doug Almquist, WB8VOF.



Thomas Schoonover, K8BTE, was presented with his 50th Anniversary Of Licensing Award and his 50-Years Of Continuous Licensing Award by President Doug Almquist, WB8VOF.

award!

Following the Award presentations, Peter Hansen, W8TWA, gave a presentation on his many years of work with NASA and the National Space Program. Pete was instrumental in the development of many special components used on many of NASA's space missions, and on the International Space Station.

We are proud to recognize long-time Chapter 10 member, "Mac" McLaughlin, N8TT, for placing First in the QCWA April 2007 QSO Party, Phone Div. with an impressive score of 15,204 points! Congratulations, Mac, on a job well done.

We encourage all QCWA members to work towards the QCWA 60/60 Award and talk up QCWA to others on the air. Recruiting new members for QCWA should be foremost on our minds when telling others of QCWA and what a great organization it is.

Our special thanks to QCWA General Manager Chuck, K1IGD, and his wife, Jan, for another outstanding year of service and dedication to QCWA. Thanks, Jan and Chuck!

Please join us on our ssb net on Sunday mornings on 3.903MHz at 8:00 AM, EDT, and our CW net on Sunday afternoons at 2:30 PM, EDT, on 3.530 MHz.

James F. Bishop, W8JFB, Secretary/Treasurer

Chapter 12, Andy Clark (FL)

President Harry Pilafian, W4SQG, opened our monthly meeting at 12 Noon at Steak & Ale Miami. There were 12 members and guests present. We were pleased to welcome our special guest Loren Chase, AI7M, from the newly-formed Southern Oregon Coast Chapter 220. Loren gave an interesting talk on operating 20 meter mobile CW while driving a 18 wheeler around the country. QCWA Members in the Miami area please contact the undersigned at w4vz@bellsouth.net if you would like to join with us. We meet the third Saturday of the month, 12 noon, at Steak & Ale 9090 SW 97 Ave. Kendall, Miami, FL. Visitors are always welcome.

Art Rauch, W4VZ, Secretary

Chapter 20, Baltimore (MD)

Chapter members and guests enjoyed our annual end-of-summer picnic at Patapsco State Park on September 10. Chapter Executive Chef Eddie Briggs, KB3IKD, and Russ Slye, N3GT, served up some very tasty hot dogs and hamburgers. Newsletter Editor, Ken McKee, W3RFQ, emceed a hilarious trivia game.

You are welcome to our Thursday 8:00 pm net on the 146.76 (-). Join us any Monday Noon for a great lunch at Cactus Willies Steak Buffet and Bakery, 7315 Ritchie Highway, Glen Burnie, MD. It is directly across from the Empire Towers. Your XYL is invited



Cactus Willies Labor Day Meeting!



Annual end-of-summer picnic at Patapsco State Park on September 10.

anytime, but especially on the first Monday of each month.

Our next major gathering will be our Holiday Luncheon on December 2. Our Social Committee is Les Jamison, WR3X; Bruce Carpenter, W3YVV; and Betty Johnston, N3PKX. To receive our Chapter newsletter, e-mail KENMCKEE@aol.com or stop by our table at any area hamfest. Net meets Thursday evening at 8:00 pm 146.76(-).

Ken McKee, W3RFQ, Chapter Secretary

Chapter 30, West Virginia (WV)

It was good to see so many Chapter members at the West Virginia State Radio Convention late last summer. Jackson's Mill has always been a favorite hamfest for me and lots of hams around the state. It seems there are fewer folks there each year with many there Saturday morning, then off to other life activities by early afternoon. After almost 50 years for this hamfest, I often wonder what the future holds for the weekend event.

Our fall gathering at the Museum of Radio and Technology in Huntington was a success and a great day for all in attendance. If you missed the event, be sure to take time when you are in Huntington and go check out the Museum. They have regular hours for visitors on weekends. You can find additional information on their web site at <http://zip.to/mrt>. You will also find a lot of pictures from the Museum on that web page.

Don't forget to support the local hamfests coming up this spring and summer around the state. This report is being written in late September and I do not have the dates for 2008 hamfest events in Fayetteville, Huntington or Ripley. Charleston should have their popular fest in March. The West Virginia State Radio Convention at Jackson's Mill will celebrate their 50th Anniversary in late August. The 2008 Roanoke Division Convention will be integrated into and part of this special weekend at The Mill. See you there!

This will be my last report for the Chapter. It is time for me to step down as your Secretary/Treasurer and move on to other activities. It has been my pleasure to watch the Chapter reorganize and become active again over the past five years.

Best Wishes for a Happy New Year 2008. Maybe there will be an increase in sun spot activity and more activity for all of us on the bands this year and the future.

David Mays, Retiring Secretary/Treasurer

Chapter 41, Dallas (TX)

Several Chapter members witnessed the recent fly-in of vintage World War II warplanes to the Lancaster, Texas Municipal Airport, Operations Center of the Dallas-Fort Worth Wing of the Commemorative Air Force (CAF). The CAF owns and maintains in flying-condition a significant number of rare military aircraft that were produced in the thousands during WWII. Its aircraft and static displays are seen over a wide portion of the country at airshows each year. For many young spectators, it's the first time to see a large propeller-driven aircraft up close or in flight while the distinct deep-throated sound of large rotary engines spark many memories in a much older generation many of whom flew or serv-



Dallas Chapter 41 member Ken Norvell, W5KN, is a long-time radio operator on the CAF's Dallas-Fort Worth wing R4D (Navy version of the DC-3) aircraft. The WWII aircraft and its vintage radio equipment are fully operational.

iced such craft in dire times.

Chapter member Ken Norvell, W5KN, a member of the CAF and radio operator on the CAF's R4D (Navy version of the famed DC-3 airliner) provided guided tours and answered many spectator questions. In addition, Ken manned the public address system and provided music of the 1930's and 1940's popular during the war years from his extensive collection.

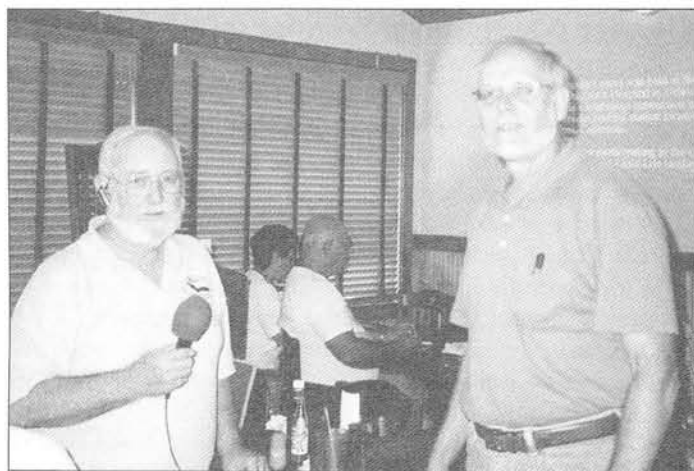
Chapter member Barney Moffatt, W5CJZ, who was recently recognized with a 75-Year Operating Certificate, celebrated his 93rd birthday in September. Steve Brodie, K5ZYZ, has graciously acceded to a third term as Chapter President. He originated and directed a successful fund raising campaign enabling the Chapter to purchase a \$700 HP projector and related sound equipment making possible, heretofore, unavailable programs enhancing our Chapter meetings. And if distance traveled to attend a QCWA meeting is a measurement of interest and motivation, Steve wins hands down over all other Chapter members — Steve lives in a town considerably north of Dallas. The lifeblood of an organization is comprised of participation and support — not absentee well-wishing.

Bob Olney, N5NT, Recording Secretary

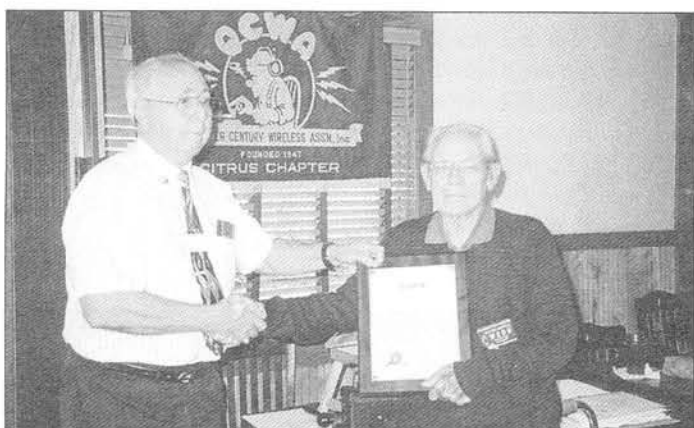
Chapter 45, Citrus (FL)

We are pleased to note that our illustrious member, Walt Maxwell, W2DU, has once again received the recognition he so deserves for all his accomplishments, not only within, QCWA but also in his life-long occupation of radio, electronics and antenna design. This time it was the QCWA Presidential Award.

We also want to single out two of our hard-working and dedicated members who have helped considerably in presenting programs at our monthly luncheon meetings, often with little or no notice. They are Lou McFadin, W5DID; and David Jordan, AA4KN. As most of us know, it is often difficult to get a program for our monthly meetings so we consider ourselves fortunate to have these two gentlemen; they are involved in many aspects of amateur radio, but one of their recent presentations dealt with a wonderful video taken at a local hospital and it involved a group of young patients communicating with the astronauts at the International Space Station.



Lou McFadin, W5DID (L); and David Jordan, AA4KN (R) presenting their program on young hospital patients communicating with astronauts.



Al LaPater (L) presents QCWA Presidential Award to Walt Maxwell, W2DU.

Members and guests of Citrus Chapter enjoyed an informal luncheon/dinner meeting at a local restaurant on Sunday, September 9; The private room, food and service were so good that we immediately booked our next quarterly luncheon for December 9. The Chapter holds one of these meetings quarterly to allow members who are still in the workforce to attend a Chapter gathering. These informal luncheons have proved to be very popular and are well attended. This is in addition to our regular monthly meetings on a Wednesday.

The Chapter owns and operates an open repeater, W4PLA, operating on 147.195 MHz (no tone). Scheduled net is at 1930 hours local time on Tuesday of each week. All hams in the area are invited to check in.

As you will note in the fall QCWA Journal, we can all look forward to the 2008 HamCation in February and many of us in Chapter 45 are heavily involved with making it a success. The good news is that we will have the same QCWA setup and location as we did last year—2 booths. We are already planning to have them open on all three days and look forward to seeing many of our QCWA friends at that time. We will work with National should our help be needed.

Al LaPater, W2AS, President

Chapter 65, Niagara Frontier (NY)

By the time you read this, our Christmas Party and Annual Meeting is but a pleasant memory. You are always assured of a fun time, enjoying the company of fellow members, some of whom you haven't seen for a whole year!

A recruitment table was manned at the Lancaster Hamfest on October 14 by President Larry Rybacki, WA2ARA, and later assisted by Vice President Tom Whalen, W2QL. It was great to see some of our members and all the other interested prospects.

Hopefully, all of you were able to get your antenna work completed before the ruthless Western New York winter season, so you can join us for our weekly net at 1330L Sundays on 3900 kHz.

We are proud to celebrate the following members who have attained their personal length-of-service milestones.

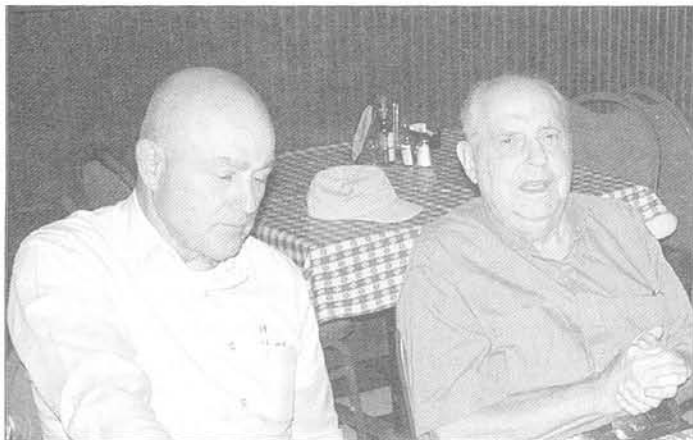
Congratulations, OMs !

50 YEARS: Roger Bean, K2SLZ; Paul Bond, WA2VTI; Bob Doran, K2VJG; Bob Gaye, K2LGJ; Bob Hardy, K2IGW; Harry Kopp, K2YZO; Joe Margaroni, K2DSO; Bob Rooney, W2AET; and Al Schutrum, K2HWF.

55 YEARS: Bob Habermehl, W2KKZ; Steve Heider, W0LUB; and John Van Son, W2JUA.

60 YEARS: Marv Hess, W2WKU.

Larry Rybacki, WA2ARA, President



Two of our Ol' Reliables - Paul, WA2VTI; and Marv, W2WKU.



We occasionally slip into Moments of Seriousness.

Chapter 70, National Capital (ON)

Chapter 70 held its third quarterly dinner meeting on 18 September with 40 members and six guests in attendance.

Jim Dean, VE3IQ, reported on the Chapter 'On the Air' Net. The net will now move from Thursday evenings to Monday evenings at 7:30pm commencing on September 24. Also, the net will be returning to repeater VE3TEL on 147.030 MHz (-).

Director Doug Leach, VE3XK, reported on the Chapter web site <http://www.qcwa70.org/>: with the exception of one presentation all other previous presentations are available for reading from the web site; the membership listing will be up-to-date with the new members listed as of 19 September. In addition, the web site shows all previous members from the beginning. Vice President Gus Holtz, VE3VK thanked Doug for his work in producing the new web site with many members voicing their agreement.

Director Doug Leach, VE3XK, presented the following QCWA QSO Party Certificate of Achievement Awards:

- a) Highest Canadian CW/Digital Score: Rod Newkirk, VA3ZBB (absent).
- b) Highest Canadian Phone Category: Frances Mackenzie-Roach, VE3HKG.
- c) Highest Canadian Mixed CW/Phone Category, George Roach, VE3BNO.

Doug noted that this was the first time that three (3) of a Chapter's members have won 'Highest Scores' in separate categories in a single QSO party. This is a first for QCWA.

Bob MacKenzie, VA3RKM, guest speaker for the evening spoke on the current state of kit-building, using Elecraft products as examples. Having consciously assumed the mantle of Heathkit, Elecraft has designed a line of transceivers and accessories that represent both good value and high performance. Bob's guest Martin Gillen, VA3SIE, showed off his tiny KX1 QRP rig (ultra portable cw transceiver) and spoke of the occasions he used it for operating pedestrian mobile and on camping trips. Bob's other guest, Mike Babineau, VE3WMB, talked about his K1 (four band cw transceiver) and its strong performance on CW as well as its low current drain on receive.



Guest Speaker Bob Mackenzie, VA3RKM.

Bob discussed the modestly priced K2 (classic hf transceiver kit), noting that in ARRL lab testing, its receiver rated among the very best of transceivers at any price. He then explained how its design accomplished this feat. Its designer made a number of trade-offs to ensure that it achieved high performance and low cost, such as it being a ham-bands-only rig and his clever use of a minimum number of components and circuits to reduce receiver-generated noise. In terms of its construction, the K2 was fairly straightforward to build, using standard-sized through-the-hole parts and not surface-mount components, having a comprehensive assembly manual and factory and on-line technical support, and featuring built-in test equipment and alignment procedures.

Bob also touched on the future of kit building in the new K3 (latest hf/6M all mode transceiver), which is a no-solder kit relying on plug-in surface-mount modules.

Bob's guests demonstrated various other manufacturers' QRP kits and some portable antennas to interested members after the talk.

Tom Bartello, VE3ELM, Secretary

Chapter 76, Blue Ridge (NC)

It's always nice to start a Chapter report with good news. Today, the 19th of September, our first and twenty-fifth Chapter President, Harry Mills, K4HU, proudly celebrated his 100th birthday. On behalf of Chapter 76, I was pleased to present him with a QCWA Certificate of Appreciation inscribed, "Gratefully acknowledging his years of service to Amateur Radio, QCWA, and being a friend to anyone and everyone!" When I arrived, he had just completed 5 laps around his porch and was in great spirits. To the readers who know Harry, he still gets on the air periodically and regularly meets with others via Echolink. Be happy in the fact that he's as sharp as ever! He was also to receive a plaque from the Radio Club of America marking his 100th birthday.

The first of the Chapter 76 monthly meetings for this quarter was in July and Harold Johnson, W4ZCB, provided a presentation on the topic of lightning. Storm formation, lightning generation, and discharge characteristics were discussed. Additionally, personal safety measures were explained. Harold has done this presentation many times and, hopefully, we get smarter each time.

At our August meeting, our speaker was John McGuire,



(L) Duke Knief, W4DK, with Chapter President, Harry Mills, K4HU. Harry just celebrated his 100th birthday and is seen here with his QCWA Certificate of Appreciation.

retired Vice President of Banking for Sun Trust Bank in Atlanta. He gave a talk on changes in banking with respect to the growing use of computers over the years. The discussion reviewed the initial impact of mainframe computer systems, followed by networking of ATMs, and finally the current use of PCs for home banking. Additionally, insight was provided into what type of customer service was needed to support such 24/7 activities. The successful approach taken did not include overseas help centers that so many of us have learned to dislike.

And in September, Jeff Kelly, K4JAB, our Chapter Secretary was the speaker on the topic of HF Digital voice. Two approaches were discussed for getting on HF Digital Voice using existing SSB transceivers. It seems that "digital" has been in the commercial world for some time and is only now being noticed among the amateur ranks. We're looking forward to a presentation on D-Star coming up in the next few months.

Labor Day weekend is a very active time for all of us in the mountains, first the Shelby Hamfest and then our local Apple Festival and parade. The Blue Ridge ARC was founded by members of Chapter 76 and, among other public service contributions, they have been handling the county parade marshalling tasks for more years than I can remember. This year, a twist was added. For the first time, Amateur Radio had a "float" in a county parade complete with a QCWA and ARES banner prominently displayed on the rear loading ramps. The float was used as the net control site (running on solar power) and then slipped in at the end of the line of march when the marshalling tasks had been completed. We were pleased to be able to put amateur radio "up front and personal" with an estimated 275,000 spectators.

That's about it from this corner of the Blue Ridge Mountains, "Hooterville" and Chapter 76. If you're in the area, stop by and break bread with us. First and Third Wednesdays at the Golden Corral, Hendersonville, NC.

Duke Knief, W4DK



The Blue Ridge ARC float on Labor Day weekend. It was complete with QCWA and ARES banners displayed on the rear-loading ramps.

CHAPTER REPORTS

Chapter 85, Ark-La-Tex (LA)

We look forward to our next meeting at the Bossier History Center on Beckett Street in Bossier City on the last Saturday of October. Election of officers for 2008 is one of the main addenda items.

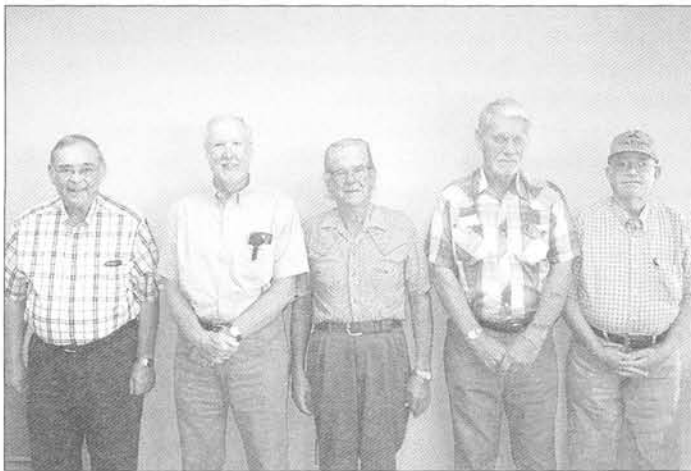
We are very happy to welcome three new members to Chapter 85: Robert Aarsted, N6NKZ; Andy Lord, W5MFS; and Johnny O'Dell, KA5BQM. These members resulted from a mass mailing to all QCWA members in the area. We hope to engage in further recruiting efforts over the coming year.

Mike McCrary, WB5LJQ reports that W5SHV, the area's first D-Star repeater, is now fully operational. Mike demonstrated the capabilities of D-Star at several recent club meetings, including QCWA Chapter 85. Local interest in D-Star is growing rapidly.

We would like as many people as possible to participate in our weekly 2 meter net. Our net is conducted on the 146.67 repeater each Monday evening. The net begins at 8 PM during DST and 7:30 PM during CST.

We invite everyone to join our informal meeting/luncheon at 11 AM each Thursday at Luby's Cafeteria on Texas Street in Bossier City.

John Stewart, AA5KV



(L to R): Roger Ley, WA9PZL; Jerry Tanner, WA5NSU; Richard Norman, W5ZUA; Charles Dockery, W5LAX; and Tom Brown, K5UIC.

Chapter 89, Palmetto (SC)

Chapter 89 September 2007 meeting was unusual in that with the installation of the officers for the year 2008 Jenny Myers, WA4NGV is to be presiding Officer for the New Year. Jenny's installation has the distinction of being the first female President our Chapter has ever had. In fact, Jenny was the first female member of Chapter 89. She served as Secretary/Treasurer for 7 years; we welcome her and look forward to the New Year with her. I know she will do a fine job as she did serving as Secretary/Treasurer. Also installed, as 1st Vice President was Bryce Jenny's better half, making it the first husband and wife team to serve as Officers for the Chapter; and Don Zupon, W3MIF, was installed as 2nd Vice President.

Receiving Awards were Kenneth Ferguson, K4KXO 50 years;



Kenneth Ferguson, K4KXO (L); receiving 50-Year Certificate from President Bill Pennekamp, WA4WGP.

Forrest Ramsey, W4MPR, 60 years; Peter Redding, 55 years, and Don Zupon, W3MIF, 50 years.

Dr. Jim, N2ZZ, South Carolina Section Manager, who is a member of our Chapter, updated us on the happenings in the area with comments on ARRL activities and ham groups in South Carolina in general.

After lunch there was a general eyeball QSO with members visiting in person the folks we talk to on the air so often.

Ralph Mott, N4RM

Chapter 91, Vic Clark (VA)

Since the stories and photo albums covering all of our Chapter's recent events are found on our website:

<http://homepage.mac.com/rucker/chapter91/>, only a capsule summary of each recent event follows.

July is our awards month. "Years since First-Licensed" Awards went to:

75 years: Howard Bullock, W4LBM. Howard now lives in Arizona and so received his by mail.

70 years: Floyd Martin, W4RW; and Bill Leavitt, W3AZ; Bill should have received his Award last year. Floyd now lives in Kansas, but was in town and received his Award in person. In the photos, that's Floyd seated and Bill laughing.

60 years: Ken Anderson, W4JQT; and Dave Wiesen, K2VX.

55 years: Gene Alward, W4WKB.

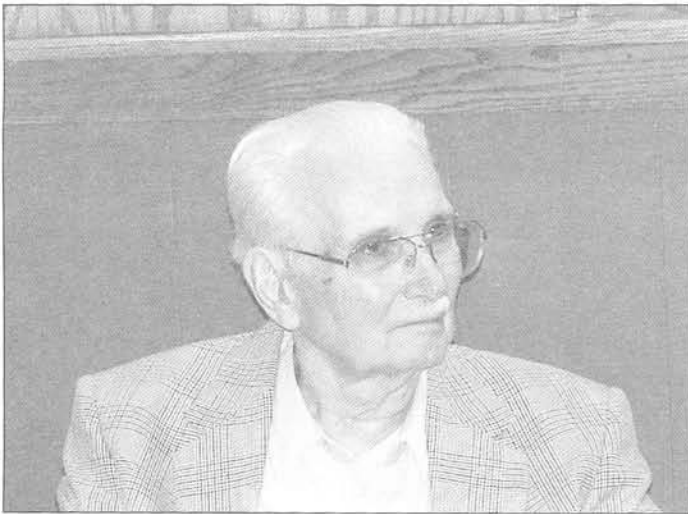
50 years Continuously Licensed: Bud Caron, WA3TNQ; Bill Scholitz, W3HXF; Ken Pinion, N4KP.

50 years: Jim Wilcox, W3WV, 50 years.

QCWA's Meritorious Award went to Nelson Seese, W4BHD, for proposing and designing the Chapter's Virginia Quadricentennial Award. You, too, can qualify for one of these handsome certificates; for details, go here:

http://homepage.mac.com/rucker/chapter91/scheduled_events/

Chapter 91's Ethel Smith, K43LMB, Memorial Award went to Lew Bradley, W4SWP, for his years as an Officer and advisor to the Chapter. This handsome Award was first presented to Ethel by



Floyd Martin seated



Bill Leavitt laughing

QCWA in 1987 after she retired as its General Manager. Last July, Chapter 91 began presenting it as a rotating Award to be held by a Chapter member for one year. I was the first to be so honored; this year, it's Lew's turn.

Our featured speaker was Jim Reiersen who told about his experiences as a volunteer with Habitat for Humanity, an organization helping victims restore their homes destroyed by hurricane Katrina. His tale was made vivid by photos he'd taken, statistics he'd collected, and a graphical simulation of the sequence of events as hurricane-driven lake waters broke levies, pouring water into the below-sea-level bowl in which New Orleans sits.

August: We toured the National Weather Service (NWS) Forecast Office located near Sterling, Virginia. Chapter 91 member Randy Sly, W4XJ, who is the Amateur Radio Coordinator for SKYWARN in the National Capital Area, arranged it. Our tour began with briefings by Randy and two of the forecasters. Their presentations were reinforced by (1) current satellite views of hurricane DEAN as it was gaining strength south of Puerto Rico and (2) computer projections of its likely track. One day later, DEAN made landfall as a Category 5 hurricane.

September: It was a glorious fall day for a picnic. Tim, WA4CLK, and Mary Ann Donovan hosted the event on the elevated deck off their kitchen. Food was plentiful and delicious. Lew Bradley, W4SWP, was a master at grilling meat, and Len Hook, KG6ZR, lead us in a game of Trivial Pursuit.

For more about these events and the photo albums covering them, please visit our website.

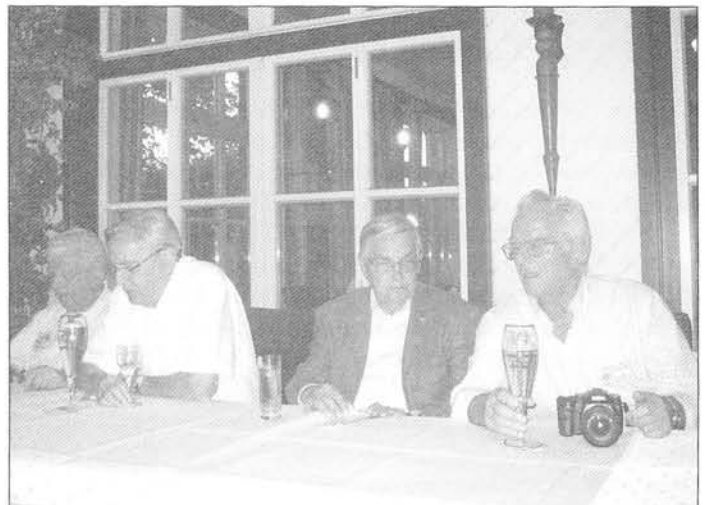
Dick Rucker, KM4ML

Chapter 106, Germany

Our 30th Anniversary!

In August 1977 the German Chapter 106 was founded by a small group of active QCWA members during the DNAT (German-Netherlands-Amateur-Radio-Days) in Bad Bentheim.

On the occasion of the anniversary the annual meeting of our Chapter took place at the place of foundation, Bad Bentheim, in August 23 to 26, 2007, but as our own event against the background of the DNAT. The first participant arrived already on



Chapter 106 members.

Tuesday. In sunny weather we had the first nice talks on the terrace of the hotel, a former railroad station. These talks were continued while and after the common dinner.

On Friday we had a short hike through a small wood to the health resort, where an interesting guided tour had been organized for the members of our Chapter. In the afternoon the members parted in two events; at the same time there was a guided tour through the castle of Bad Bentheim and the grand opening of the DNAT with the international respected bestowal of the "Golden Antenna". After the common dinner we celebrated the annual general meeting. In the elections to the Board we found the following result:

Chairman: Peter Lehrke, DK4HP (former Vice-Chairman)

Vice-Chairman: Hubertus Golz, DJ1HN

Secretary: Walter Pilhár, DL3LBP (as before)

Treasurer: Rudi Genserowski, DL1SAK (as before)

Further two members have been awarded by the new Chairman: Albert Leinemann, DL9AR for 55 years and Hans Wiechert, DJ3LR for 50 years being licensed. The former Chairman Siegfried Prill has been awarded for his activity as Chairman and operating the SSB-net with the Meritorious Award. A gift basket was given to him by Erich, DJ1PV, on behalf of the whole Chapter.

On Saturday we had the morning for individual use. We could visit the castle, the HAM-Radio flea market or the HAM-Radio exhibition. Because Bad Bentheim is the centre of a special high-quality brownstone, there also is a brownstone-museum and – spread about the town – a lot of statues and historical buildings of brownstone. In the afternoon we went by bus 14 miles to "Emsflower". It is an area of 60 hectare greenhouses the largest plant and flower farm in Europe. They deliver their plants in whole Europe between OH and CT.

Sunday was the date of departure without further programs. We all enjoyed meeting QCWA friends again. Next year the annual meeting will take place in Lauenburg, the QTH of Walter, DL3LBP. There will be a cultural program as well. QCWA-friends from USA are as well very welcome!

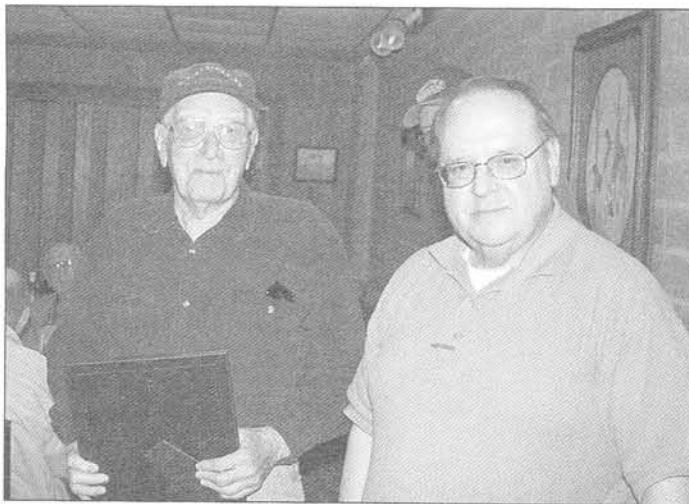
Walter Pilhar, Secretary

Chapter 109, Baton Rouge (LA)

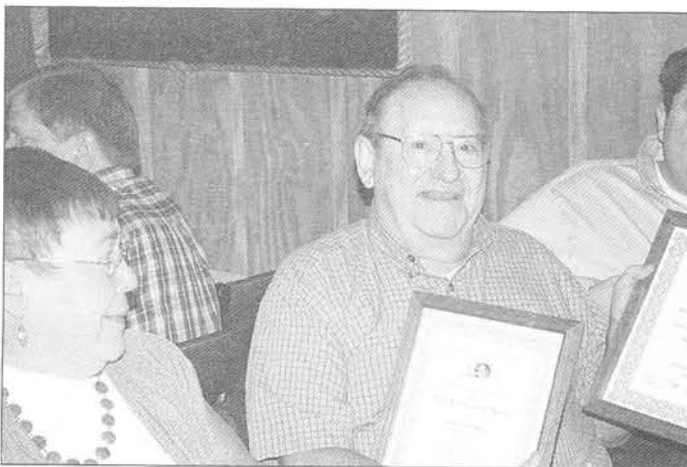
Chapter 109 has been active in 2007. The Officers held a planning meeting on January 27 in Denham Springs at James's Café. Quarterly meeting dates were established and Louis Roussel, K5FZM, was welcomed as the new Chapter Historian.

The first quarter meeting was held at Brunet's Cajun Restaurant on March 17. Our President, K5EOA, presented the Member of the Year Certificate for 2006 to Jack Whitaker, W5HEZ. Thanks to Benny Owens, K5KV, for chaperoning Jack, as we all know how bad he is, especially on 6 meters. John Nastasi, Sr., N5CBB, was also presented 50-Year Certificates as he missed getting them last Christmas. WA5DRP, Bill, also joined as a new member at this meeting.

The second quarter meeting was held at The Great Wall Chinese restaurant in Baton Rouge. K5EOA announced that he has changed his call to K5DF. The third quarter meeting was held



Our President, K5EOA, presented the Member-of-the-Year Certificate for 2006 to Jack Whitaker, W5HEZ.



John Nastasi, Sr., N5CBB, with his 50-Year Certificates.

at Landry's Seafood Restaurant in Henderson. Chapter 109 welcomes W5KGH, Stan; K5PGW, John; K5MOL, Barbara; and KM5XM, Chet, as new and/or returning members. The fourth quarter meeting is scheduled for December 1 at Don's Seafood in Baton Rouge. Our thoughts and prayers are with W5OVV who is in the nursing home and W5LVX who has recently been diagnosed with Alzheimer's disease.

"Doc", ACSIA, Secretary/Treasurer

Chapter 120, Quarter Century Wireless Women, QCWW

As I sit here writing this article on the eve of my trip to the Denver-hosted 2007 QCWA Convention and our Chapter's Annual Meeting, I am filled with anticipation for the wonderment and excitement that our host Chapter's city will be offering its visitors during the first week of October. My highlight at events of this nature has always been the interactivities with the other conventioners. Greeting old acquaintances and meeting new friends always tops the list of memories I bring home with me. Denver will be the 10th QCWA Convention I have attended. My first was the 1998 Palm Desert, California adventure that I ventured to alone,

not knowing anyone there. I must have had a good time because I have joined the annual convention folks ever since then. We do tend to have a very enjoyable outing.

Our current Chapter President is Janice Lentz, K4IJK; Vice-President is Carolyn Harrison, WBØOUM; Secretary is Ann Nutter, VE3HAI; Treasurer is Larry McCalvy, WA9JMO; Board Member Kay Eyman, WAØWOF; Board Member Jan Scheuerman, WA2YL; Certificate Custodian is Bob Roske, NØUF; and sYLver Sparks Editor is Larry McCalvy, WA9JMO. Their home addresses and email addresses are on Chapter 120 home page: <http://www.qsl.net/qcwa120/>. Or you may go to the QCWA home page: www.qcwa.org and hit the site index link, then the letter "C" and then scan down to Chapter 120 to see the Officers and Board of Directors, Chapter 120's annual meeting minutes from 1997 to 2006, pictures, by-laws, members (a little outdated), membership applications, membership cards, and our QCWW Certificates.

I have many of our past newsletters that I will digitize and ask Bob Roske to include on the Chapter's Web Site. We are hopeful that we can produce at least three newsletters a year to be emailed to members and posted on the Web Site. We are still working on gathering a valid membership list and email addresses of the membership.

Membership in Chapter 120 is open to any QCWA member in good standing and at this time there is no Chapter membership dues.

We would like to highlight our members in future newsletters and in this Journal article. Please take a few minutes to tell us about yourself, your Amateur Radio activities, your family, and other interests and hobbies. We would also like a picture of you; any action pictures would also be greatly appreciated. Please email them to wa9jmo@wi.net; send them by USPS to: Larry McCalvy, WA9JMO, sYLver Sparks Editor, 5400 Six Mile Road, Racine, WI 53402-9741; and/or give me a call at: 262-639-7327.

If you are a current member, past member, or would like to join the Chapter, please contact me by one of the above methods so we can update our record file. I would love to hear from you and about the activities that keep you busy.

Larry McCalvy, WA9JMO, Newsletter Editor, and Treasurer

Chapter 126, Piedmont (NC)

The Piedmont Chapter 126, QCWA met on Saturday, September 9, 2007 at McCall's BBQ Restaurant in Clayton, NC. There were 26 members and guests present.

The Board met at 11:00 AM with the following Officers present: Chuck Littlewood, President; Jack Emerson, Vice President; Billy Stewart, Treasurer; John Covington, Webmaster and Wes Jones, Director. Charlie Swindell, Secretary; and Joe Brown, Director, were excused.

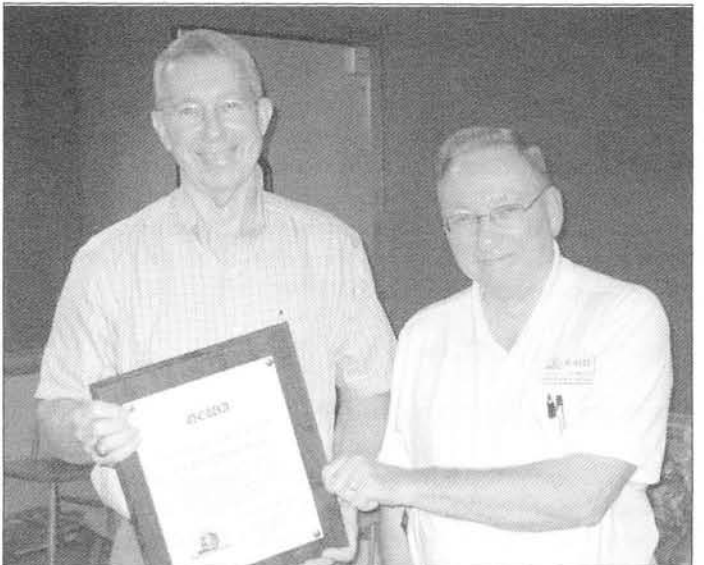
The Board decided that our next meeting would be December 1 at Yarborough's Restaurant in Lexington, N. C. Jeff Wittich, AC4ZO of Cary, NC will present "Samuel Morse and his Code." Jack Emerson will check out possible meeting locations for March 22, 2008 such as Siler City and Asheboro. Several possibilities for meeting programs were discussed. Chapter 126 will have a booth at the Charlotte Hamfest in March 2008. Jack Emerson



Present at the Piedmont Chapter 126 Meeting was Ham Hicks, KB4BR; Kent Miller, K4MK; Owen Garner, K1AF; and Bob McNeill, W4MBD.



Also present at the Piedmont Chapter Meeting was Billy Stewart, WA4PVI; Chapter Treasurer, Ham Hicks, KB4BR; and Wes Jones, WJ4DX, Chapter Director.



Ham Hicks, KB4BR receiving the QCWA Roll of Honor Award from Piedmont Chapter 126 President Chuck Littlewood, K4HF.

encouraged all to participate in the QCWA QSO Party. The Treasurer's report was received. The Chapter will send solicitation letters to new QCWA members in our area. Our webmaster reported that our newsletter, the QCWacker could be placed on a link in our website. The Chapter is seeking a volunteer to handle the project of updating the history of our Chapter.

The general meeting began at noon. President Chuck offered grace, including our thoughts of "Uncle Henry, N4UH" (SK). A memorial service will take place at his church near Statesville, NC on September 17. We then had a great meal either from the buffet or from the menu. Following lunch, we introduced ourselves.

President Chuck then asked our Chapter member Ham Hicks, KB4BR to come forward. He reminded all present how Ham, with the help of some others, worked successfully to get H-1340, the Ham Radio Antennas Bill, unanimously through the legislature and signed by Governor Easley, in record time. We, the ham community, all owed Ham a vote of thanks so Chuck presented Ham with the National QCWA ROLL of HONOR PLAQUE, signed by National QCWA President John Johnson, W3BE. Ham and his wife Linda were surprised and pleased with this recognition.

The members of Coastal Carolinas Chapter 118 were recognized as well as several folks from around the Raleigh and Goldsboro area who joined us.

The 50/50 drawing was held and Carolyn, WA4LPN, won \$15 and John, W4CC, won the door prize of a 2007 ARRL Handbook. Mary Jo Littlewood, K4MJL, was thanked for doing all the administrative duties at the meeting. Vice President Jack reminded us of the December 1 meeting and the upcoming QCWA QSO Party. He also gave the 3rd quarter net report. Billy gave the Treasurer's report. He also advised we have received a thank you note for our donation on behalf of N4UH. We received an acknowledgment for a contribution to the ARRL Diamond Terrace Fund. The Chapter now has a "brick" for the new Diamond Terrace in the name of the Chapter.

The program was a 35-minute video of a tour of the 2007 Dayton Hamvention. Amateur Radio Video News, aka Gary Pearce, KN4AQ, of Cary, NC produced the DVD. Many favorable comments were offered on a job well done. In addition, there were some old photos of ARRL League Planning Meetings in Greensboro, Asheville, and Myrtle Beach from 25+ years ago. That was the era when Vic Clark, W4KFC, and Phil Wicker, W4ACY, were active. You should have seen W4CC and K4HF then. There was even a Roanoke Division Newsletter when Chuck, W4WXZ, was NC Section Communications Manager.

Following the program, folks were thanked for the excellent attendance, and notified of the next meeting on December 1. Some of the members remained afterwards for photos by Wayne, W4HG. Meeting adjourned at 2:10 PM.

Charlie Swindell, WB4DCM, Secretary

Chapter 138, Marconi (NJ)

Marconi Chapter 138 held its annual picnic on Sunday, September 9 at Fireman's Park in the Oakhurst sections of Ocean Township, NJ. Thanks to the combined efforts of Matt Bregoff, W2AOJ; Bernie Ricciardi, WB2EJT, and Ron Olender, WA2HZT; for the third year in a row, the picnic was a success. The weather cooperated by giving us a beautiful warm day. The food was deli-

cious and plentiful. All who attended had a very enjoyable afternoon.

Bob Buus, W2OD, Secretary

Chapter 149, Nutmeg (CT)

The meeting was called to order by President, Al Cohen, W1FXQ. There were about 20 people in attendance including members & spouses/friends. Al explained that many members were unable to attend because of a conflict with the memorial service for Roy Hilt, K1JNR, who became a Silent Key recently.

Al then gave a very brief history of Chapter 149 and how its founder, Milton Chafee, W1EFW, wanted the Chapter meetings to be events to which members could take their, "non-technical" wives and/or friends; hence, today's musical program.

The meeting featured 2 special presentations. In the 1st presentation General Manager Chuck Walbridge, K1IGD, gave a slide presentation & talk entitled, "What QCWA Is All About" which included a history of QCWA, its mission and its activities worldwide.

Following Chuck's program came "A Musical Walk Thru Memory Lane" by semi-retired professional entertainer Sam Pasco, KA1GHM. He delighted the audience with personal experiences as a founding member of the acclaimed Al Jarvis Orchestras and his varied musical work in supplying the official orchestras for the Hartford Civic Center. He recounted fascinating experiences with numerous college reunions and public and private events for which his orchestras provided entertainment.

KA1GHM's encyclopedic knowledge of thousands of well known tunes from popular to classical delighted those present. He illustrated this with his playing of the saxophone. Many questions interspersed his presentation and he was a genial and very entertaining guest.

Tony Perrone, W1CGI, Secretary

Chapter 151, Wild Rose (AB)

The fall meeting of Chapter 151 was held in the German Canadian Club on September 22, 2007. Thirty-one members, friends and guests signed in. The Treasurer's report indicated we had a total of 57 members, of which 41 are full members and 16 are friends.

We had a letter from the Calgary Military Museums Society thanking us for the \$300.00 donation to buy Morse code equipment for lectures to young people. A volunteer (Newby Terry Paden, VE6TEP) helped set up the six code practice oscillators (each can be used by two people) and on September 21st, volunteer Larry Chapple, VE6KC, lectured 12 of the 90 students who came to tour the Museum.

Chapter 151 elections were held. Ken Oelke, VE6AFO, will continue as President. The position of Vice-President is vacant. The new Secretary is Mitch Goodjohn, VE6SM, and the new Treasurer, Gerry Linton, VE6PL. Both were elected by acclamation.

The September 22nd meeting program was a very interesting talk on "High Altitude Ballooning". The weather balloon, when inflated, is 5.5 feet in diameter and burst at a height of 117,587

feet. The payload contained had a camera, GPS and a VHF amateur radio to send data to ground. Photos were taken every minute and the earth's curvature could be seen at maximum height. A parachute lowered the weather balloon and instruments to the ground after a journey from Sherwood Park, Alberta to a location north of Vegreville, Alberta

Jack Ambler, VE6CAQ, Secretary

Chapter 160, Utah (UT)

Our group faced strong winds and blowing sand in Mesquite, NV last spring, but luck was with us, by the name of Charles, KH6AB. He invited us to come out of the weather and opened his home to us for the better part of the day. It turned out to be a fun time with lots of food to share and a whole lot of catching up to do. For dinner we went over to the nearby Golf Resort and had more good food! What a great way to spend the day with good friends. Our thanks to Charles and Yvonne for coming to the rescue. Mark your calendar, March 25, 2008 for the next "Mesquite Frolic". The WIMU Hamfest was well attended and some of the QCWA group got together for dinner and a good time was had by all who attended, the perfect way to end Summer, spending time in Jackson, Wyoming.

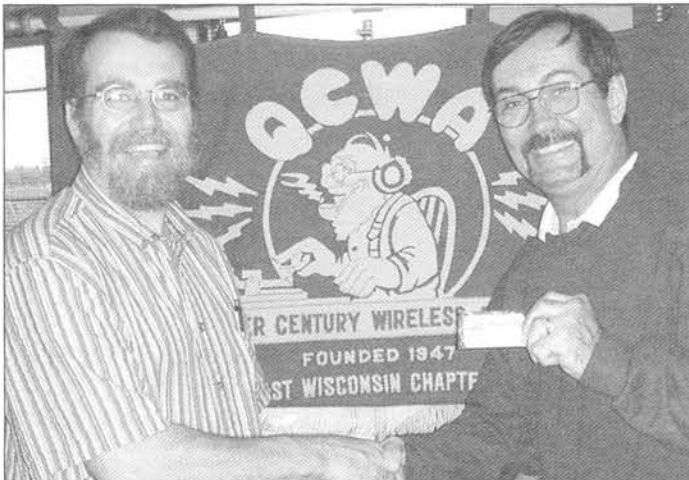
Remember our net on 7272, every Saturday 11:00AM Mountain Time. The band is suppose to improve, we can only hope.

Maryellen Vaughan, W7CKD, Secretary

Chapter 162, Southeastern Wisconsin (WI)

I would like to welcome William "Willie" Watkins, KB9QMM, to the Chapter. Willie is active on most of the bands and joins the group on our Thursday evening 9 PM, two-meter round-table net. He calls Kenosha, Wisconsin home. Welcome aboard Willie!

October is our annual banquet and election of Directors. The group will meet at Bently's Restaurant in the Racine Marriott Hotel for some fine dining, great conversation, and a meeting of the minds as we select three of our seven Directors to guide us into 2008.



Mark Swartwout, NX1K, Chapter Secretary/Treasurer, presenting a QCWA Name Badge to new member Dan Miller, KA9OIL.

At this writing, the Olie Fox Award of Excellence Committee is searching for candidates for the 2007 Olie Fox, K9AKG, award. Noone was selected for 2006. Candidates must have been licensed at least 25-years prior to receiving the Award, currently licensed, live in Southeastern Wisconsin or Northeastern Illinois and have contributed significantly to his or her community and Amateur Radio in general.

Our Scholarship Committee will also be looking for our second annual scholarship awardee in 2008. The scholarship is open to any licensed Ham attending college in September of the year he or she receives the scholarship, taking at least 12 credits and who's home of record is in one of the counties that a Chapter 162 member lives in.

At our September meeting, Mark Swartwout, NX1K, Chapter Secretary/Treasurer, presented a QCWA Name Badge to member Dan Miller, KA9OIL. Each new Chapter member receives his or her QCWA Name Badge at their second meeting.

With the new Board seated at the November business meeting, the membership will be asked to address the following – a greater QCWA presence at all the local swapfests where our Chapter banner will be flown and QCWA recruitment will take place. Explore avenues to expand our Chapter funds to at least continue our annual scholarships past the time we allocated money for. Engage the Chapter into meaningful Community activities as we have done in the past – Amateur Radio Demonstration with school children, Ham Radio and emergency communication shown to shoppers at the Mall; and any other ideas that might crop up to enhance Amateur Radio and QCWA activities in the metropolitan area.

How about youngsters in the hospital having the opportunity to talk to Santa via Amateur Radio during the first two weeks of December – a local two-meter repeater would do nicely, and think of the media coverage this event could generate.

Larry McCalvy, WA9JMO

Chapter 169, Sacramento Valley (CA)

Chapter 169 generally meets on 2nd Wednesday of each month. We just lost our regular meeting room so, unfortunately, we have no meeting location as this is written.

Our meeting presentations this quarter were:

Video of expedition of J20MM

Video from the Northern California DX Foundation

Video of DX-pedition to Libya by 5A7A

Video of a direction finding get-together

A Service Award was presented to Tom Yolk, N6DFL, for 70 years. Also, a Meritorious Service Award was presented to Paul Wolf, W6RLP, for his 18 years as President of the Chapter. A Meritorious Service Award was also presented to our Secretary, Gary Stilwell, KI6T.

We start gathering at 8 AM for a no-host breakfast and our meetings start at 9:30 AM. We try to finish by 10:30 AM. YLs are always welcome. For farther information please contact our Secretary, Gary Stilwell, KI6T.

We start gathering at 8 AM for a no-host breakfast and our meetings start at 9:30 AM. We try to finish by 10:30 AM. YLs are always welcome. For farther information please contact our Secretary, Gary Stilwell, KI6T.

Gary Stilwell, KI6T, Secretary/Treasurer

(continued on page 30)

Virginia is for (QCWA) LOVERS!

A perfect sun and sand convention weekend awaits
you and yours in Beautiful Virginia Beach!

2008 QCWA International Convention October 3 – 5 2008 • Virginia Beach, Virginia

ACCOMMODATIONS/RESERVATIONS: A block of rooms has been reserved at \$90 (U.S. dollars – taxes, etc. not included) for Ocean View Single/Double/King rooms until Sep 10, 2008. After this date there is no guarantee that this price can be honored as this is still considered 'peak season' at Virginia Beach. This rate is guaranteed beginning September 29 through October 7 inclusive. **FOR RESERVATIONS: contact the hotel directly at 1-800-446-8199 and mention QCWA International Convention 2008 for this special rate.**

CONVENTION REGISTRATION: On-line registration is available (when implemented) at www.qcwa-ch119.org or by the mail-in form that will appear in the QCWA Journals. When registering on-line your payment must be received through the mail to guarantee your registration. A special prize will be awarded for early registrations – information will be included on the registration form. Type the URL into the address window of your Internet browser -- www.qcwa-ch119.org. PLAN AHEAD.

HOSPITALITY RECEPTION: There will be a Meet N Greet reception with heavy refreshments and entertainment on Friday evening. Tickets may be secured with your conference registration. Please don't miss this one.

PROGRAM: The convention planning group is finalizing details of the program at as early a date as possible. Watch the QCWA Chapter 119 web site for earliest information: The program will conclude with a CONVENTION BANQUET on Saturday evening. Pre-registration required.

TOURS: An interesting collection of tours is being arranged which should provide interesting/educational experiences for all who pre-register for these special activities. Watch the web site for updates on tour possibilities. Check out some possible activities in the following included information.

SPONSORS: Tidewater Chapter 119 Inc. The Chapter was chartered in 1979. Members include individuals from the Southeastern Virginia area predominantly but include amateur radio operators in several more distant locations. Chapter 119 is On The Air – HF Net meets on 3.947 MHz every Sunday morning at 0800 local time (1200 UTC). Please join us any Sunday morning.



Historical Points In Virginia Beach

Historic Cape Henry – First Landing Cross marks the area where America's first English settlers touched shore in the New World in 1607. The Old Cape Henry Lighthouse, built in 1791, is the oldest government-built lighthouse in America.

Lynnhaven House – Built in 1725, this home is one of the best-preserved 18th-century buildings in the U.S.

Francis Land House – Travel back to the 18th century by way of costumed guides, exhibits, period furnishings and gardens at this gracious plantation.

Adam Thoroughgood House – Don't miss this lovely 17th-century modified hall and parlor house with quaint English cottage architecture and historic herb and flower gardens.

Points of Interest In Virginia Beach

Virginia Aquarium and Marine Science Center – Explore the mysteries of the deep (and the shallow) at one of the top aquariums in the country. It features a huge open-ocean aquarium, live sharks, over 300 hands-on exhibits, a giant sea turtle aquarium, a loggerhead turtle hatching lab, plus the amazing six-story high Virginia Quarium 3-D IMAX Theater.

Norwegian Lady Statue/Monument Park – The past meets the present on the boardwalk as the new national aviation memorial stands next to a beautiful bronze figure-head commemorating the 1891 wreck of the Norwegian bark, "Dictator."

Tidewater Veterans' Memorial Park – This stunning waterfall sculpture symbolizes the elements of war that

unify and divide us all and is a tribute to the area's military forces.

Oceana Jet Landing Observation – See the Navy's most sophisticated aircraft in action at Oceana, home to the F-14 Tomcat and the F/A-18 Hornet.

Mount Trashmore Park/Skate Park – One of the first and most successful solid waste beautification projects, it turned a sanitary landfill into a 165-acre city park complete with fitness trails, skate park, Kids Cove Playground, Soap-Box Derby venue, picnic areas and lakes.

Association for Research and Enlightenment – Visit the international headquarters of Edgar Cayce, the best-documented psychic of modern times.

Beyond The Beach

Points of interest throughout the 'local' Metro Area

Yorktown Victory Center, Colonial Williamsburg*, Jamestown Settlement*, Historic Jamestown, The Old Coast Guard Station, Contemporary Art Center of Virginia, Atlantic Wildfowl Heritage Museum, Virginia Zoological Park, St. Paul's Church, Naval Station Norfolk, Norfolk Botanical Gardens*, U.S.S. Wisconsin at Nauticus*, Nauticus National Maritime Center*, The Chrysler Museum, Macarthur Memorial Museum*, The Children's Museum, Virginia Sports Hall of Fame, Virginia Air and Space Center*, Virginia Living Museum, Mariners' Museum*, Virginia War Museum, Macarthur Center (upscale indoor shopping mall)*, Prime Outlet Malls, Williamsburg Pottery Factory.

* Denotes possible tours arranged for convention participants. Watch the web site for continuing developments at WWW.QCWA-CH119.ORG. Type URL into your browser address window.

Chapter 182, Northeast Tennessee (TN)

Our summer luncheon meeting was held in Kingsport, Tennessee on the 9th of June 2007 at the Fisherman's Dock.

Members and guests attending were; Don Jones, N4TN, our new President; Bill Price, W4CZ Secretary/Treasurer; Charles Perry, K4OZX, Past President; and his guest Willard Candill, W4WFX; Don Gilbert, W4EHI and wife Barbara, K4RRN; Bob May, K4SE and wife Carol; Dick Church, N4ARO; Robert Simmons, W4UKJ and wife Sue; Bill Owen, W4VS, and guest James Bronson, K2YSR.

Unfortunately, our new Vice President Dave Rotenberry, K4DR, could not be with us this day. He was therefore granted an excused absence so that he could be with his new bride on their wedding day!

Lively roundtable discussions were had at the luncheon of the "good old days" when we operated radios now considered to be antique equipment.

A brief moment of silence was held for our most recently departed Silent Key members.

William D. Price, W4CZ, Secretary/Treasurer



The fine folks from Chapter 182.

Chapter 196, Edison (FL)

After taking the summer off, we resumed our normal luncheon schedule. The membership of Chapter 196 is ready for the seasonal visitors that come to join us during the fall, winter and spring.

Our latest lunch was quite entertaining. QCWA National Treasurer, Frank Harris, WA4PAM, got to meet with us and he spoke about the position that he so proudly holds. Frank told us about the yearly Convention that he will attend. He will come back and tell us about what happened in Denver.

There were a lot of kind words spoken about one of our charter members, Jeff Beals, WA4AW. Jeff used to live in Fort Myers and has decided to run for National Office in the ARRL. We all hoped that others would support Jeff in his continuing efforts to promote amateur radio and its values. Good luck Jeff!

Tad Burik, K3QC, President

Chapter 202, Old Dominion (VA)

During the spring meeting, Stan, K4UK, presented the "Spoon Award" to Bill, WA4BKW. This Award is given to individuals who have made glaring (stupid) errors due to that malady known as a "Senior Moment". Evidently Bill had a few errors in his announcement to the membership of this upcoming meeting. Then sent out a connection which only corrected one of the errors; necessitating a third notice.

The program was introduced by Bill, KC4D. He related how he had met Joe and Janet Poole (7Q7BP and 7Q7YL) while doing missionary work in Malawi; and how they helped his group reestablish a radio link that was not functioning. Joe explained that he got into ham radio when he joined the Navy (age 16) and did well when he was tested on his aptitude in copying CW. He spent the next 23 years as a radio operator, first in airplanes and then as a Communications Officer aboard submarines (a lot of CW there). He then spent several years working with different organizations maintaining their communications. This is how he came to be in Malawi. He and his XYL, Janet, have just finished a home on a lake, which stretches almost the whole length of the country. This



Herman Cone, N4CH, presenting his program during the September meeting.



Joe and Janet Poole, 7Q7BP & 7Q7YL, (L) with host, Bill, KC4D (R).

Is their permanent home now, traveling back to the UK once or twice a year. Janet, an excellent amateur photographer, gave a presentation showing scenes from Malawi, including flora, fauna and the occasional antenna installations at the various mission locations. The photographs were superb and gave a great representation of the country and its people. After spending some time with Bill, KC4D, in our area, they attended the Dayton Hamvention and then spent the next three weeks touring as much of the U.S. as they could, visiting "ham friends" along the way. The first stop was In San Diego, followed by Arizona, Yellowstone National Park and finally ending up in the Boston area. There was a question period following the presentation. Bill's group is trying to help educate the Malawi youngsters in the use of computers at the mission schools. Anyone who is upgrading his computer and doesn't know what to do with the old one, contact KC4D. He certainly could put it to good use. The indication that the program was enjoyed by all was when the meeting lasted well beyond the usual length and noone left.

The fall meeting in September began with a few announcements. Chapter President Buddy Smith, W4YE, announced that this is the 60th Anniversary of the QCWA and encouraged everyone to participate in the 51st Annual Fall QCWA QSO Party; providing everyone with a copy of the rules and a tab sheet. Riley Dudley, K4ORD, was recognized as the Roanoke Division winner of the QRP Sweepstakes. Stan Reas, K4UK, reported that the Family Day activities at the D-Day Memorial were successful, with a good response from those attending. Riley, K4ORD, gave a CW demonstration and guided several youngsters in sending their names in CW. A homemade "key," constructed from a door hinge was passed around. It was agreed that it worked well and had a "good feel."

Gene Walter, W2CP, introduced Herman Cone, N4CH, who presented the program. Herman was an engineer for General Electric's two-way radio division for 42 years. He holds DXCC on all bands from 1.8-54 MHz; DXCC Honor Roll with 337 countries; DXCC Phone and CW; CQ DX Honor Roll SSB & CW; five-band WAZ; and VUCC on 50, 144, 222, and 432 MHz. He has quite a collection of old radio equipment and was featured on the cover of an issue of CQ magazine. His equipment has also been featured on CQ calendars. Herman spoke first about the 60-meter band - its five spot frequencies, USB only and 50 watts input power. The band is similar to the 80 and 40 meter bands. It is possible to make many contacts and enjoy this band even with its limitations. Those wishing more information can go to the website - www.mods.dk. He passed around some of the QSL cards he has received including some very nice DX. He then spoke about awards, specifically the DXCC Awards. He discussed some of the trials and tribulations in accumulating the necessary contacts to apply for them. His final topic was the old electronic equipment that he has collected. Everything that he has accumulated works - many of which had to be put into that condition. He brought a few items with him - the first 2 meter handheld; a QRP transmitter; an Atlas radio of which very few were made; and a prototype of a transceiver that never went into production.

Bill Svec, WA4BKW Secretary/Treasurer

Chapter 205, Eastern Indiana (IN)

Members of the Eastern Indiana Chapter meet every third Saturday each month at the Kirk-Little Post of the VFW in Richmond at 8:00 AM for breakfast prior to our meeting. Guests are welcomed and encouraged to attend. If you are visiting in this area, please stop by and see us.

Club members have been busy placing a 2-m/75 cm amateur radio station at our county Emergency Operations Center. All 9-1-1 calls in Wayne County are processed in the center and club members are proud to have been instrumental in obtaining permission for the station and setting up the equipment and radio tower for the ham station.

There are five repeaters in town and three of them are now operating on automatic switchover auxiliary power. The remaining two are in the process of being switched to automatic switchover and are on manual switchover power at present.

Our local Chapter assisted the Whitewater Valley ARC with the annual Celebration of Lights with the Richmond Parks and Recreation Department assuring that everyone enjoyed the event.

Our Chapter now has a web page courtesy of our local ham club and we can be located at www.73se.com/wvarc/qcwa.htm. Our Chapter operates a Monday night net at 8:00 PM local time on 147.045+ MHz (131.8) and all hams in the area are invited to check in.

Mike Chambers, W1IDX, President

Chapter 210, Omaha (NE)

The Chapter 210 Annual Meeting was held at 11:00 AM Saturday August 4th, at Valentino's Restaurant 102nd and Maple Street, in Omaha. There were 18 in attendance.

Chapter President Jim Newland, KOEMC, and Vice President Rudy Nabel, WOSPE; opened the meeting with the Pledge of Allegiance and there was discussion to grow the Chapter membership and mentor new and prospective amateurs. We must provide Chapter news to QCWA Headquarters for publishing in the Journal.

The monthly Chapter Luncheons will continue at 11:00 AM on the 4th Thursday of each month, at the Old Country Buffett, located at 76th and Dodge Streets in Omaha.

On Tuesday, September 4th, we will resume the 2 Meter Chapter 210 QCWA Net, using the Chapter Club call WOOMA. The time will be 1900 local (7:00 PM) on the 147.36+ repeater. We will meet every Tuesday evening for the net. Please check in and enjoy the conversation.

The following members received awards at the annual meeting: Leo Meyerson, W0GFQ - 80-Year Certificate (Leo received Award in California)

Don Perazzo, W0YQY - 70-Year Certificate
Milt Krogstad, W0FKG - 65-Year Certificate
Rudy Nabel, WOSPE - 50-Year Certificate
Dick Newsome, W0HXL - 50-Year Certificate

There is \$1005.75 in the Chapter Treasury.

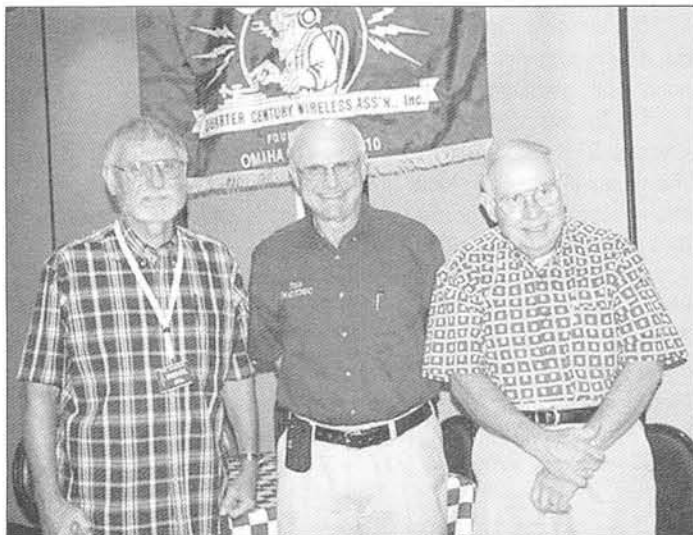
There were three door prize drawings for station clocks. The winners were: Tom Martin, KOAMD; Bob Conley, W0LYU; and



Award Certificates L to R: Dick Newsome, WOHXL - 50 Years; Milt Krogstad, WOFKG - 65 Years; Don Perazzo, WOYQY - 70 Years; Rudy Nabel, WOSPE - 50 Years.



Attending members of Chapter 210!



Omaha Chapter 210 Officers L to R: Dick Newsome, WOHXL, Secretary/Treasurer; Jim Newland, K0EMC, President; Rudy Nabel, WOSPE, Vice President.

Gene Martin, W0UJL. The clocks should look great in each ham shack.

Thursday, August 23rd, is the next monthly luncheon - 11:00 AM at the Old Country Buffett in Omaha. Please join us for an excellent time.

Dick Newsome WOHXL, Secretary/Treasurer

Chapter 213, Fresno (CA)

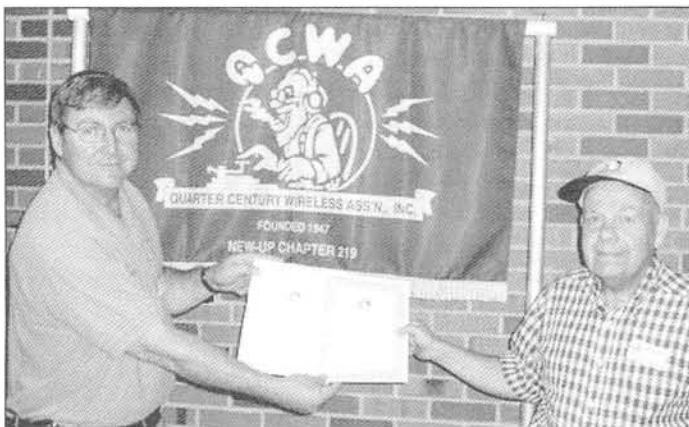
Our Chapter now has 39 members. We have our monthly meetings on the 4th Tuesday and Noon at Carrow's Restaurant, 4480 N. Blackstone in Fresno. All QCWA members are welcome to attend if they are in the Fresno California area on our meeting day. W6DPD made a couple of QSOs in the fall QSO party. We have been recruiting new members for QCWA National and out Chapter. We welcomed Ed Bondshu, WA6U, and Dave Epps, AB5PC, as new members of QCWA and of our Chapter. Several of our members are also members of Mid Sierra Chapter 198. Congratulations to Mike Bavoso, W6YDE on receiving the QCWA Meritorious Service Award.

Charles McConnell, W6DPD, Secretary/ Treasurer

Chapter 219, New-Up (MI)

Several radio amateurs from Northeast Wisconsin and Michigan's Upper Peninsula met on St. Patrick's Day 2007 at Perkin's Restaurant in Menominee, Michigan to discuss forming a Chapter of the QCWA. Seven QCWA members signed the Petition for Chapter, which was granted, forming the NEW-UP Chapter 219. The Charter members are Dave Arnold, W8DXX; Jim Callow, K8IR; Floyd Croy, K8ZLO; Pam Croy, K7PAM; Fred Nevenfeldt, W6BSF; Dave Palmgren, N8DP; and Tom Zeratsky, K8ICO. Also present at the meeting were Dwight Bosselman, NS9I; Tom Hellem, K0SN; and Ed Wruk, K9FCQ; who shortly following the meeting became members of our Chapter after renewing their QCWA memberships. W8DXX, who initiated the idea to establish a Chapter in this area was elected President. K8IR was elected Secretary/Treasurer.

The first official meeting of Chapter 219 was held on July 28, 2008 in Escanaba, Michigan at the Upper Peninsula Hamfest.



W8DXX receiving his Certificates at the July 28th meeting.

Three new members, Bill Becks, WA8WG; Walter Anderson, W8ERB; and John Anderson, WD8RTH, were signed up at the Hamfest, giving us a total of 13 members who call our Chapter home, with QTH's from Houghton, Michigan in the north to Manitowoc, Wisconsin in the south. We approved a Constitution and By-Laws at this meeting. N8DP was elected Vice President to fill out the list of officers. Also at the meeting, W8DXX was formally presented with his QCWA 50-Year Anniversary Award and 50-Years Continuously-Licensed Certificate.

Jim Callow, K8IR, Secretary

Chapter 220, Coos Bay (OR)

Southern Oregon Coast Chapter 220 continues to grow, with three new prospects sending in their applications to QCWA for membership in late August.

The Chapter received the vanity call sign W7QCA for use at future special events such as Field Day, International Lighthouse and Lightship Weekend and others.

Ron, W7VU, received his 50-Year Continually Licensed Certificate and noted that he will be licensed for 55 years this spring.

We have our very informal breakfast meetings at the Minute Café in Bandon at 9am on the 2nd Saturday of each month. Visiting QCWA members and their spouses are always welcome.

Our web site is <http://www.geocities.com/qcwa220/>

Ron Oliver, W7VU, Secretary

Oldtimers:

You may enjoy viewing this picture on the wall behind your equipment.

Check it out at:
www.hamradioprints.com

Sheryl Wyatt
P.O.Box 84
Tyler, MN 56178

Listening is only half the fun.... POPULAR COMMUNICATIONS is the other half

Since 1982 Pop'Comm has delivered thousands of pages of great reading for both the radio enthusiast and the professional communicator.

Every month Pop'Comm is crammed with scanner frequencies, shortwave listings, broadcast and utility loggings, radio nostalgia, and technical information. Plus you'll find great features on amateur radio, public service communications, DXing, pirates, clandestines, and much, much more.



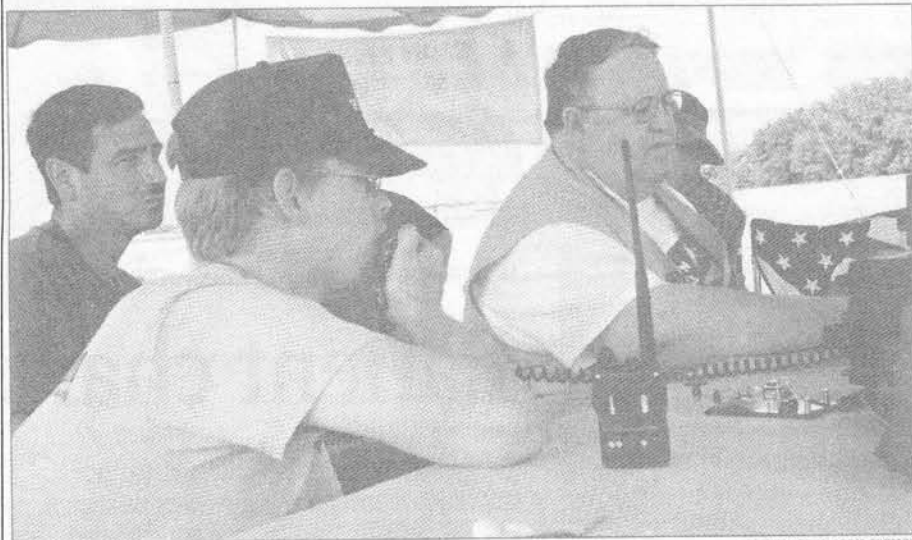
	USA	VE/XE	Foreign Air Post
1 Year	\$32.95	\$42.95	\$52.95
2 Years	\$58.95	\$78.95	\$98.95
3 Years	\$85.95	\$115.95	\$145.95

Please allow 6-8 weeks for delivery of first issue.

Popular Communications
25 Newbridge Rd, Hicksville, NY 11801
www.popular-communications.com
516-681-2922 Fax 516 681-2926

QCWA in the news

CALLING ALL HAM RADIO OPERATORS



STAFF PHOTO BY AROIS TOBISON

HAM RADIO OPERATORS FROM THE CROW RIVER AREA AMATEUR RADIO CLUB demonstrated their emergency communication capabilities last weekend at Butler Field in Hutchinson. The group attempted to contact as many ham radio operators as possible during a 24-hour period from noon Saturday to noon Sunday. Chris Schultz, KCOYFX, who has had his license for about a year, talked on the radio. Bob Roske, NOUF, a 45-year license holder, handled the controls, while club vice-president Tom Gillespie, WBOPWT, looked on. The initials after their names signify their radio identification and license number.

QCWA STANDING COMMITTEE ORGANIZATION

COMMITTEE

CHAIRPERSON

ADMINISTRATION:

Ken Oelke, VE6AF0

CHAPTER RELATIONS:

Carolyn Harrison, WB00UM

EXTERNAL RELATIONS:

Val Erwin, W5PUT
(Co-Chair U.S.A.)
Ken Oelke, VE6AF0
(Co-Chair Canada)

FINANCIAL:

Tony Hirsch, W8RSH

PUBLICATIONS:

Leroy Baldwin, W00FY

Addresses for Chairpersons can be found at the listing for QCWA Officers and Directors. A complete listing of all committee members is available at the QCWA web-site, www.qcwa.org.

***Trying to sell some
equipment?
Looking for something
hard to find?***



***Use the QCWA Journal
Member Classifieds
to assist you in your quest!***

Your Antenna RF and Safety Ground

By: David Conn, VE3KL

Note: This article uses TCA HotLinks to provide access to enriched media from the RAC website. For more information, please go to www.rac.ca/tca

Introduction

The previous TCA article, Jan/Feb 2007, presented design graphs and tables for Antenna Chokes. These Chokes are a key ingredient for the design of a complete system with good performance. This article extends that discussion to include methods of grounding your system.

There are two distinct issues to be considered: RF grounding and Safety Grounding. If you are not careful, these requirements can conflict with each other but by proper design the problem can be solved.

As discussed in the article, there are three requirements for the design of a safe and efficient antenna system. These are:

- Isolating the antenna elements from cables and the house.
- Diverting lightning strikes on the antenna/tower into the ground.
- Protecting your equipment from power line surges and antenna/tower strikes using a Single Point Ground Panel.

Background

With some planning, it is possible to address the demands of a safe installation and good RF performance. In principle, constructing a good safety ground is quite simple and can be achieved by following well established guidelines that have been published by leading authorities. Typical amateur radio systems are: not protected against lightning at all (not recommended), partially protected through the use of computer type surge protectors and ground radials or highly protected through the use of single point ground connections and commercially manufactured surge protectors and other devices.

Commercial broadcast stations are required to transmit 100% of the time. These installations are engineered to operate in the presence of very strong lightning storms and rarely fail during these violent events. Hence, it is possible and practical to implement a good system.

The theory and practice of establishing RF grounding is much more difficult and complex. In fact, a well designed dipole or beam type antenna that includes a good Balun does not need an RF ground. A transceiver in a shielded box is connected directly to a high quality coaxial cable which is connected to the antenna system. All fields are either inside the transceiver and coaxial cable or near the radiating antenna wires. In this case there is no physical ground connection. While the above system works perfectly well on both transmit and receive, it has no provision for lightning protection.

Definitions

The term "Ground" must be clearly defined before we can proceed. This is because the term has several meanings which can easily lead to a misunderstanding of the issues. The term "RF Ground" is particularly

confusing since most antennas (not all) do not need RF grounding at all. Circuit designers use one definition for ground while antenna/radio designers use another. People who "grind" coffee use "ground" as the past tense of 'grind'. Educators provide our children with 'background' information on many subjects. The definition for ground that we use here (from Webster's dictionary) is clear and unambiguous as follows:

Ground: the surface of the earth; also SOIL.

If a transmitter chassis is grounded, it is connected directly via a wire to the soil that surrounds the house. The term RF Grounding means that there is a direct low impedance path for RF current to flow into ground. Also if a device is DC grounded, there is a direct path for DC to flow easily into ground. As an example, a large inductance that is connected to a vertical antenna element to ground provides a DC ground but not an RF ground.

Circuit designers define ground as a real or imaginary point on or near a circuit that is used for a reference point for voltage measurements. This is similar to measuring the altitude of an airplane with respect to sea level.

Lightning Basics

Before proceeding with the design of your safe system, it is good idea to learn the basics of lightning. The free web encyclopedia Wikipedia contains one of the very best sources for you. I highly recommend the encyclopedia. See TCA HotLink 8. Here is some information given in Wikipedia:

- A typical lightning strike rise time is 1.8 μ s and RF energy ranges from 20 KHz to approximately 1 MHz. Your 10 Metre Balun has very low impedance at these frequencies and will not suppress the surge. Because of the high frequency current, wide grounding straps are used to keep the impedance as low as possible due to skin effect and inductance. This point is discussed in detail in the TCA Hotlinks.
- A 45 metre tower is approximately ten times more likely to receive a strike than a 15 metre tower. So, it is important to assess your particular situation.
- Trees are often struck by lightning. The destructive impact often blows the bark off the tree and even sets fire to it. So, a wooden antenna support structure is not inherently safe. Remember, the strike has traveled several kilometres to get to your antenna and will continue until all of the current is conducted into the ground.
- "Thunderstorms are the primary source of lightning. Because people have been struck many miles away from a storm, seeking immediate and effective shelter when thunderstorms approach is an important part of lightning safety. Contrary to popular notion, there is no 'safe' location outdoors. People have been struck in sheds and makeshift shelters. A better location would be inside a vehicle (a crude type of Faraday cage). It is advisable to keep oneself away from any attached metallic components once inside (keys in ignition, etc.)."

I recommend that you read QST articles in TCA Hotlinks 3, 4, 5. The

QST articles outline a *logical* approach for you to follow when designing or improving an existing system. The QST articles also give information on the required length of ground stakes and many other dimensions not covered in this article. The problem of designing a safe system is similar to plugging holes in a leaking boat: If you plug all of the holes except one, the boat sinks.

After reading the QST articles, you should then look at some professional resources. One good source of information can be found at the Polyphaser TCA Hotlinks in this article.

The Problem Defined Through Examples

An Ungrounded System Example

A very simple portable system is shown in Figure 1. This is a typical system that you might take out camping. The small transceiver is battery powered and is connected directly to a good dipole that is RF isolated by the use of a Balun. There is no connection to ground in this example. Since a Balun is used there will be very little RF current on the outside of the transceiver, battery or coaxial cable. All of the RF radiating current is confined to the dipole. Hence, the RF performance is excellent and the ground is not used for any connections.

However, there is a serious problem with the system. If lightning strikes the antenna, it will find its way to ground and in this case the Radio Operator provides the conduction path. Also note that if lightning strikes the ground near the operating site, Ground Spreading Current flows out in all directions

A Grounded System Example

The same portable system is shown in Figure 2, where a grounding stake has been added to the system. The ground stake is connected between the radio chassis and physical ground. Since the RF system is well designed, the safety grounding stake does not interfere with the performance of the radio. This simple grounding system does not provide much if any protection to the radio but there is a path to ground that will give some protection to the operator.

Your Basic Needs

The two simplified examples above show us that:

- A good RF system can be designed that does not depend on a physical ground. However, a physical ground can be an integral part of the antenna. An example of this is the vertical antenna mounted directly on ground with the aid of ground radials.
- A safety ground must be used since lightning will always find its way to ground except for cloud-to-cloud strikes that do not reach us.
- If a Balun or some other RF isolator is not used, there can be large interactions between the RF system and the Safety ground system. In the above examples, the grounding stake can make the antenna performance very poor if a Balun is not used.

Safety Grounding

Introduction

Lightning can strike power lines and enter into the house wiring as many of know from experience. Your house is grounded at the terminal box where most (not all) of the unwanted current will flow into the ground. Lightning can also strike the antenna/tower and enter into the house via coaxial cabling. Also, lightning can strike near-by. This produces large ground currents that can couple to the coaxial cables that feed the antenna system. Hence, we have to attend to three dangers:

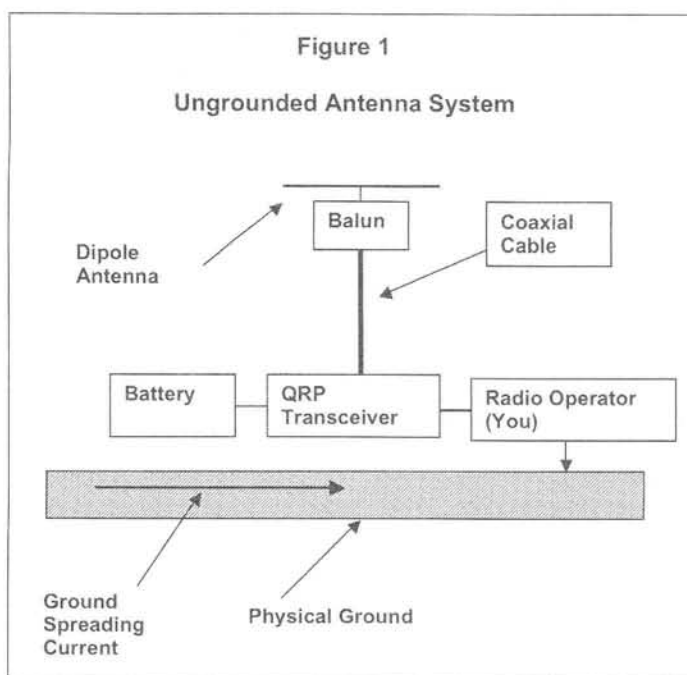


Figure 1. Block diagram of a simple ungrounded antenna system. Notice that the radio operator is not protected. RF isolation is provided by the Balun.

power line strikes, antenna/tower strikes and near-by ground strikes.

After you have assembled an isolated antenna that does not produce unwanted RF currents on the outside of coaxial cables and in the house, it is now possible to design a good safety ground for your radio station.

The following discussion starts at the tower or antenna end of the system and works its way back to the transmitter/receiver to a Single Point Ground Panel. Here we are assuming that lightning strikes at the antenna/tower.

The Antenna/Tower Problem

The best way to prevent unwanted coaxial currents from reaching your equipment is to keep the current from entering the house by diverting it into the ground.

During a strike, the tower and coaxial cables on the tower will share the current. This means that coaxial lines should be grounded at the top and bottom of the tower to prevent current from continuing towards your house on the cables.

A block diagram of the recommended system is shown in Figure 3. Here, the antenna RF currents are isolated from the cables with a Balun connected as close as possible to the antenna. The coaxial cable at the top of the tower, just below the Balun, is grounded with the aid of a Bulkhead Feedthru connector that is connected directly to the tower with a metallic mounting flange. Note that the outside of the Bulkhead connector is grounded, not the center conductor.

The cable is also grounded at the bottom of the tower and the tower is grounded via a series of ground radials as described in TCA HotLink, 5. Most of the unwanted current from the lightning strike will now be diverted into ground. The system is not perfect due to the inductance and resistance of the connections and the finite resistance of the ground radials. Some of the current will still travel towards the house.

A near-by strike will produce ground currents that can be coupled to

Figure 2

Antenna System .. Simple Ground

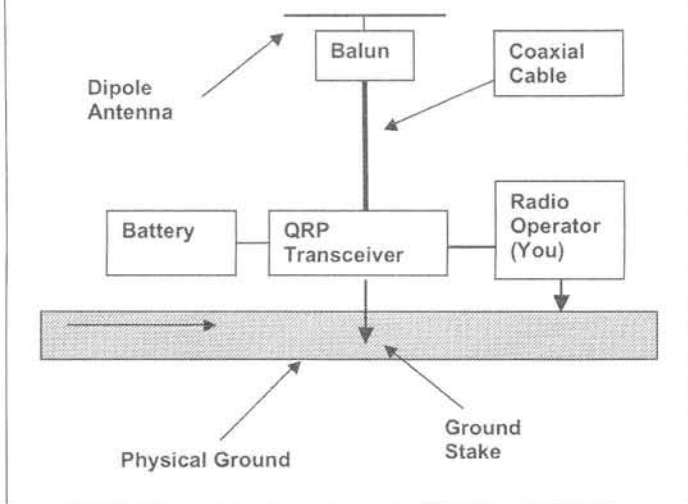


Figure 2. Block diagram of a simple portable system with an added ground stake. This provides some protection to the equipment and the operator. RF isolation is provided by the Balun.

the coaxial cable between the tower and the house.

To solve this problem, see Figure 3, the coaxial cable should also be grounded very close to the house via a grounding panel and ground stakes. This may be accomplished by installing a panel connected to the ground system with large surface area copper straps. The large surface area straps are necessary to provide a low inductance/resistance path to ground. Each coaxial line as it enters the building is attached to the panel with an additional ground kit before connecting to an inside Single Point Ground Panel (SPGP). A typical connection panel can be seen on TCA Hotlink, 9.

The above discussion is based on an example system that only uses one RF coaxial cable. The process must be applied to all RF and control cables that are used in the system. Polyphaser and other companies discuss these issues in considerable detail. See the TCA Hotlinks.

The Single Point Ground Panel....Typical Installation

Now that we have the cables in the house, we have to connect protection devices such as surge protectors to our radio equipment. The concept is quite simple. Establish a Single Point Ground Panel (SPGP). All of the protection devices are connected to the SPGP which is connected to external ground via a large wide grounding strap. The SPGP simplifies and organizes the system so that each unit to be protected is given the same protection.

Figure 4 shows a simple SPGP. The panel is constructed from a copper plated circuit board type material that acts as a common ground point. The common ground point is connected directly to ground on the outside of the house via the use of wide copper straps. SPGP panels are available from several manufacturers including Polyphaser and Harger. The Harger web site is given in TCA Hotlink 10.

In the example given, there are three units that need protection: the radio transceiver, a 12 Volt power supply and a PC computer. These units have their chassis grounds connected to the SPGP.

A 120 Volt AC surge protector is mounted on the SPGP. Its chassis ground is connected directly to the common ground point as shown. The surge protector output feeds power to the radio system and the PC computer. If a power line surge occurs, the surge protector either dumps the current to the SPGP or stores the unwanted energy in capacitors. The capacitors are then bled off slowly into the normal hydro ground.

The other protection device that is mounted on the SPGP is a coaxial surge protector that is connected between the antenna and the transceiver. Its purpose is to protect the transceiver from current surges that travel on the inside of the coaxial cable. There are several types of coaxial surge protectors that are discussed in the next section.

Surge Protectors

In the typical application presented in this article, there are two protection devices that are mounted on the SPGP: A power line surge protector and a coaxial RF surge protector. This section describes these devices to give some insight on the proper technology to use for your system.

Power Line Surge Protectors

Power line surge protectors prevent large surges of current that travel on the house wires from entering your valuable equipment. These devices are an essential component of every electronic installation. They are made in various configurations and quality. The most common device is the very simple "power bar" with some built-in surge protection. These are available at all hardware stores and are sold at very low

Figure 3

Antenna/Tower Grounding.. Block Diagram

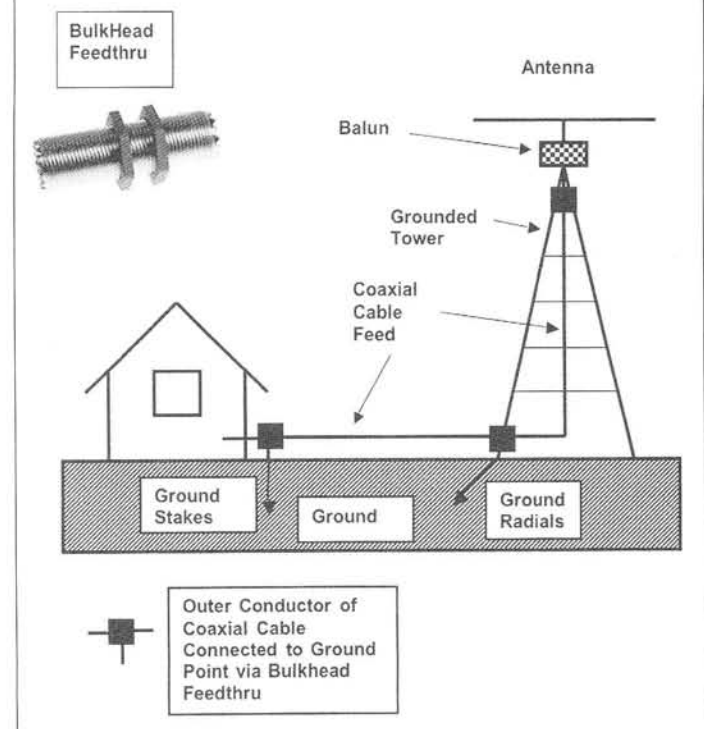


Figure 3. Antenna/Tower Grounding block diagram. There are two paths to ground and the Balun provides RF isolation.

cost. A high grade of this type of protector that has higher current protection and built-in telephone line protection is also commonly available at much higher cost. Some companies like Polyphaser and Brickwall offer surge protection with much improved performance.

There are two main types of surge protectors:

- One type of protector dumps surge current into the SPGP via the use of Metal Oxide Varistors (MOV). This type requires an excellent ground installation with wide grounding straps. If you use this type of system to dump current into the neutral conductor of the house wiring, it will not perform well due to the very large inductance encountered in the path to ground. This type of protector is only limited by the size of the MOV devices being used and the quality of the external grounding system. MOV devices can fail under extreme surges.
- The non-MOV type circuit that uses a large inductor to stop most surges and dumps excessive current progressively into a bank of capacitors. Typical circuits for this type of protector can be found in TCA Hotlink, 11. They can be mounted directly on the SPGP for convenience but do not rely on the SPGP for protection. This protector is limited by the amount of capacitance used to store the surge current. These units are not likely to fail since they do not contain MOV devices. However, they do contain switches and other components.

The decision about which type to purchase is not easy. If you live in an area which is not prone to lightning storms, a very high quality computer grade protector will probably suffice. However, if lightning is a real problem, you should select a high capacity MOV type or the non-MOV type as described above. If your ground system is not ideal due to the location of the radio with respect to the ground, it is best to use the non-MOV type circuit as that type does not rely on dumping large amounts of current into the ground.

Coaxial Type Protectors

There are three basic types of coaxial surge protectors: the dc-blocked high-pass filter, the dc-blocked quarter wave stub and the straight gas tube (SGT), non-dc-blocked.

The Straight Gas Tube (SGT) (Non-DC-Blocked)

The SGT consists of a gas tube connected across the coaxial cable. When the surge voltage exceeds a certain level (around 200 Volts for low power applications) the gas tube fires and shorts out in a fail safe mode. The tube must then be replaced. The characteristics of the SGT are:

- There is no attenuation of lightning frequencies (20 KHz to 1MHz).
- The SGT is inherently wide band.
- The SGT might not protect the receiver if the maximum acceptable input voltage of the receiver is lower than the SGT firing voltage. This is difficult to check as most amateur radio transceivers do not include the maximum allowed input voltage in the specifications.

The Quarter Wave Stub (DC-Blocked)

The quarter wave stub is simply a shorted stub connected in parallel with the transmission line. Hence, it has excellent low frequency properties while appearing as a low loss band pass filter at the desired operating frequency. Its characteristics are:

- The device is narrow band (approximately 20% band width).
- The device is passive so there are no components to change in

case of large surges. It will not normally fail, even in extreme conditions.

- It filters out lightning frequencies.

The High-Pass Filter (DC-Blocked)

The high-pass filter type consists of a shunt connected inductor and a series connected capacitor to form a high-pass filter. Its characteristics are:

- It filters out lightning frequencies and is designed to do so in an optimum fashion. The Polyphase DSX model attenuates lightning frequencies by 89 dB. The quarter wave stub attenuates lightning frequencies by approximately 55 dB.
- The device is passive so there are no components to change in case of large surges. It will not normally fail, even in extreme conditions.

Other Configurations

This article discussed the basic set-up which consisted of a single coaxial cable feeding an antenna that was mounted on a grounded tower. There are many other arrangements that are often used. Some systems have a low noise amplifier mounted at the top of the tower where power must be fed to the amplifier. In this case the coaxial surge protector will be mounted at the top to the tower between the antenna and the amplifier. Often, there is an antenna rotator mounted at the top which requires DC power. The cables that feed the power to the rotator must also be protected. These and other configurations are discussed in TCA Hotlinks, 1-5.

An inverted V, G5RV or dipole antenna will use a Balun that is mounted at or near the antenna feed point. In this case the coaxial surge protector will be mounted on the SPGP.

A vertical antenna with ground radials can be set up in the same way as the tower mounted system. The coaxial cable is first connected to a single grounded feedthru and then to the house panel as described above.

A Common Pitfall

An amateur who is using a non-protected system, disconnects his/her expensive transceiver from the antenna coaxial cable and places the cable on the floor of the radio shack when a storm is approaching. This simple act violates safety guidelines that have been given to us by professionals. Here is what can happen. The storm can cause an arc on the open ended coaxial cable in the ham shack, create hot plasma in the room and possibly set fire to the house.

Further Study Using TCA Hotlinks

Further information is provided via TCA hotlinks which are easily accessed via the RAC website. For this information, please visit <http://www.rac.ca/tca>. Hotlinks make it unnecessary to type URL addresses into your computer and provide you with calculators and other support that demonstrates the ideas presented in the articles. The following hotlinks for this article are available on the RAC site.

TCA HotLink, 1 PolyPhaser Technical Literature
<http://www.polyphaser.com/>

TCA HotLink, 2 An overview of Lightning Protection for Ham Radio Stations
<http://www.polyphaser.com/NR/rdonlyres/C1565001-F81A-4AC2->

Figure 4

Single Point Ground Protection (SPGP) Block Diagram

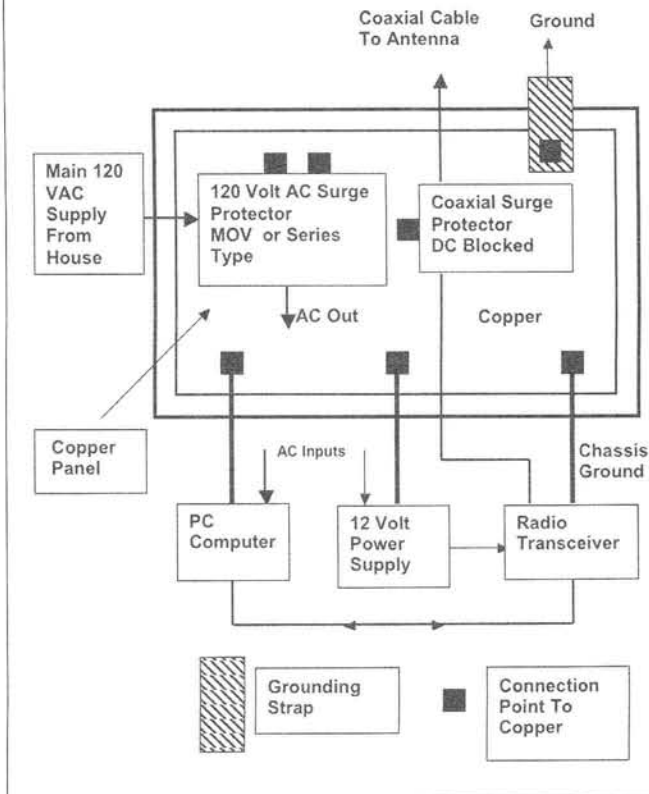


Figure 4. Single Point Ground Protection Panel (SPGP). In this example, there are two devices mounted on the panel: A 120 volt surge protector and an RF coaxial surge protector.

A98F-E88B8037F988/716/TD1016.pdf

TCA HotLink, 3 Lightning Protection for the Amateur Station, Part 1
<http://www.arrl.org/tis/info/pdf/0206056.pdf>

TCA HotLink, 4 Lightning Protection for the Amateur Station, Part 2
<http://www.arrl.org/tis/info/pdf/0207048.pdf>

TCA HotLink, 5 Lightning Protection for the Amateur Station, Part 3
<http://www.arrl.org/tis/info/pdf/0208053.pdf>

TCA HotLink, 6 <http://blog.aa6e.net/2005/03/polyphaser-pldo.html>

TCA HotLink, 7 About Surge Protectors
http://www.engineersedge.com/instrumentation/surge_protectors.htm

TCA HotLink, 8 A comprehensive discussion about lightning from history to safety issues. <http://en.wikipedia.org/wiki/Lightning>

TCA Hotlink, 9 SPGP Ground System Example <http://www.lightningtalks.com/K9WK%20Bulk%20Head.jpg>

TCA Hotlink, 10 Grounding components.
<http://www.harger.com/grounding.htm>

TCA Hotlink, 11 Non-MOV surge protectors. <http://www.brickwall.com/>

Conclusions

This article presented a basic discussion of safety and grounding issues associated with all amateur radio equipment. It relies heavily of the details that are amply covered in the TCA Hotlinks as there are many station varieties that cannot be covered in a single article. Hence, the purpose of the article is to direct you to essential information and to help you plan a new set-up or evaluate the issues that might be of concern with your existing station.

Dave's Potpourri

A half wavelength 14 MHz horizontal dipole mounted 30 feet above an average ground provides a gain of 6.51 dBi at take off angle of 28 degrees, while the quarter wavelength length vertical provides a gain of -0.3 dBi at the same take off angle. The dipole holds its own down to at least 10 degrees. The situation changes if you assume a perfect ground or operate over sea water.

Did you know that "a bolt of lightning can reach temperatures approaching 28,000 degrees Celsius (50,000 degrees Fahrenheit) in a split second? This is about five times hotter than the surface of the sun". The key for us is in the above sentence is "in a split second". This means that long grounding wires which have inductances up to a few uH can create huge voltages in the radio shack.

In past articles, I have discussed Balun design. This brings up the issues of bending coaxial cable into a circular shape. There are many issues such as solid core vs. foam core cable types and operation in high temperatures. The rule that I use to is to keep the bending radius greater that 10 times the cable diameter for foam core cables and 7 times for solid core types for all conditions including high operating temperatures. If you have an application that requires smaller bending radii, it is useful to make a few tests before proceeding. Contrary to popular belief, the use of high quality foam core cables is satisfactory for the construction of Balun's.

Until later, VY 73, David, VE3KL

Report of the Nominating Committee for the 2008 Election

According to our Constitution and Bylaws, the QCWA President is required to appoint a biannual Nominating Committee in order to seek out qualified candidates for Officers and members of the Board of Directors. QCWA President John Johnston, W3BE, made those appointments in 2006, with a reminder that a report of the Nominating Committee was due in the hands of the General Manager as of June 15, 2007. The QCWA members appointed to the Nominating Committee consisted of: Alan Pickering, KJ9N, former National Secretary as Chair; Croft Taylor, VE3CT, former National President; and Harold Chase, W1EES, former longtime Board Member and Chair of the Chapter Relations Committee.

The Nominating Committee wishes to report that it has completed its assignment as of June 1, 2007, and hereby submits the following names to the General Manager (all have agreed to serve if elected) for follow-up biographical data and management of the election process:

For Board Officers:

For President: Mr. Len Nathanson, W8RC
For Vice-President: Mr. Ken Oelke, VE6AFO
For Secretary: Mr. Walt Supina, N3WS
For Treasurer: Mr. Frank Harris, WA4PAM

For the Board of Directors (eight to be elected) (listed in alphabetical order)

Mr. Leroy "Baldy" Baldwin, W0OFY
Mr. Val Erwin, W5PUT
Ms. Carolyn Harrison, WB0OUM
Mr. Tony Hirsch, W8RSH
Mr. Pierre Mainville, VA3PM
Mr. Larry McCalvy, WA9JMO
Mr. William Pasternak, WA6ITF
Ms. Joan Powell, VE3ZC
Mr. Ken Simpson, W8EK
Mr. Ernie "Skip" Swenson, WB6VVA
Mr. Ed Yoder, W3YMB

Others may be nominated by a 25-member Petition for Office or Board membership. (Please contact the General Manager for timelines and details).

Respectively submitted, Messrs. Pickering (chair), Chase and Taylor

NOTE: *The following is from the By-laws, Article VI, Nominations and Elections, Section 4: "Nominations of Officers and Director candidates may be submitted by the membership by petition signed by at least 25 members in good standing. Such petitions shall be received by the General Manager by December 15th of the appropriate year. Upon receipt of such a petition, the General Manager shall, upon verifying the validity of the petition and the eligibility of the candidates, cause the names of the candidates to be placed on the ballot along with those submitted by the Nominating Committee. Publication of the list of all eligible candidates shall be made in the spring issue of The QCWA Journal."*

Chapters On The Air!

NUM	NAME	DAY	TIME	NC	FREQ	NUM	NAME	DAY	TIME	NC	FREQ
50	CALIF CW	SUN	1100L	K6CD	7034	81	LONG ISLAND CH	SUN	1130L	W2TLC	3917
FL	SSB	SAT	1300Z	W4KOG	3955	85	ARK-LA-TEX CH	MON	1930L	WA9PZL	146.67 -
QCWA	SSB	SUN	2000Z	varies	14347	89	PALMETTO STATE CH	SAT	0843L	N4RM	3930
FL	SSB	WED	1500Z	W4NWF	7274	89	PALMETTO CH	SUN	1700L	N4RM	3695
CONEX		SUN	0815L	W2NBT	3917	91	VIC CLARK CH	SUN	0900L	VARIES	146.79 -
QCWA	CW	WED	2000E	VARIES	7035	102	DAKOTA CH	SUN	1400Z	VARIES	3889
1	CLEVELAND CH	WED	2000L	W8LYD	146.85 -	106	GERMAN CH	MON	1630Z	DLOQCW	3773
2	CHICAGO AREA CH	1stTh	2130L	W9MOL	147.15 +	106	GERMAN CH	TUE	1730Z	DL1MEB	3576
5	DELAWARE VALLEY CH	SUN	0945L	W2UAE	3917	107	CENTRAL FL	SAT	0900L	W4LHP	7243
6	PITTSBURGH CH	SUN	0830L	N3GMI	147.03 +	107	CENTRAL FL	THUR	1230L	W4LHP	14245
7	SOUTHERN CA	SUN	1000L	W6ZRZ	147.36 +	108	BEAVER STATE CH	WED	0800L	VARIES	3854
7	SOUTHERN CA	SUN	1000L	W6ZRZ	446.24-	109	BATON ROUGE CH	SUN	2000L	VARIES	146.79 -
7	SOUTHERN CA	SUN	1100L	K6CD	7034	109	BATON ROUGE CH	SUN	0800L	VARIES	3905
7	SOUTHERN CA	SUN	0900L	W6LPJ	3917	110	KANSAS CH	SAT	0730L	NOLL	3920
8	UPPER MIDWEST CH	SAT	0800L	W00FY	3909	111	PALM BEACH CH	TTHSA	1900L	VARIES	146.670 -
9	SOUTHWEST OH	SUN	1330L	W8TIV	3975	112	YANKEE CH	SUN	0830L	W1GCA	3906
10	MICHIGAN CH	SUN	0800L	VARIES	3.903	114	NORTH TEXAS CH	SAT	0830L	WA5BXH	3933
10	MICHIGAN CH	SUN	1430L	VARIES	3.530	119	TIDEWATER VA	SUN	0900L	WQ4CWA	146.895-
11	NORTHERN CA	SAT	1000L	WB6IMX	146.85 -	119	TIDEWATER VA	SUN	0700L	WQ4CWA	3947
11	NORTHERN CA	SUN	0930L	WA6AFT	3907	123	LEE DEFOREST CH	SAT	0730L	VARIES	3940
14	SAN DIEGO CH	WED	2000L	VARIES	146.640 -	125	NEBRASKA CH	TUE	0100Z	VARIES	146.94 -
16	ARIZONA CH	SUN	0700L	W7LGB	3890	126	PIEDMONT CH	SAT	0845L	VARIES	3825
17	ALLENTOWN-BETHLEHEM	SUN	1200L	W3GOS	3990	128	PELICAN CH	SAT	0900L	VARIES	145.29 -
19	MISSOURI CH	WED	1900L	W9VHL	147.360	130	INLAND EMPIRE	WED	1930L	W6HV	1896
20	BALTIMORE CH	THU	2000L	W3EE	146.760- pl 107.2	130	INLAND EMPIRE	SAT	0800L	W6HV	3917
21	CANTON OH CH	THU	1930L	VARIES	145.11-	130	INLAND EMPIRE	FRI	1600L	W6HV	3917
25	NEBRASKA CH	SAT	0830L	VARIES	3982	134	PINE TREE	SUN	1400L	VARIES	3942
28	CENTRAL NY	SUN	1030L	VARIES	3917	135	MID-MICHIGAN CH	TUE	2000L	VARIES	146.70 -
29	FINGER LAKES CH	SUN	1230L	W2BCH	3900	138	MARCONI CH	TUE	2100L	VARIES	147.045+
31	READING,PA CH	MON	2100L	VARIES	146.91 -	140	WYOMING CH	SAT	0800L	AB7BJ	3923
32	GATOR CH	SAT	0900L	VARIES	145.29 -	146	TWIN STATE CH	SUN	0830L	VARIES	3912
33	GUNDERSON PENN-JRSEY	DAILY	2000L	W3APE	3987	146	TWIN STATE CH	THUR	1900L	VARIES	146.76 -
33	GUNDERSON-PENN-JRSEY	DAILY	1000L	W3APE	14263	149	NUTMEG CH	SUN	1030L	W1JC	3923
35	MIDCONTINENT CH	THU	2030L	K0YML	146.97 -	150	DEL-MAR-VA CH	SUN	0900L	NQ4Q	146.820 -
37	HARRISBURG CH	WED	2100L	K3IUY	147.12 +	151	WILD ROSE CH	MON	1900L	VARIES	3747
38	SAN ANTONIO CH	SUN	2030L	W5HRF	146.94 -	152	ROYAL PALM CH	MWF	1630L	K4FA	14190
41	DALLAS CH	SUN	0715L	VARIES	3835	160	UTAH CH	SAT	1100L	VARIES	7272
45	CITRUS CH	TUE	1930L	VARIES	147.195 +	162	SOUTHEAST WI	THUR	2100L	N9NBC	147.27+
46	FOUNDER'S CH	SUN	0815L	W2NBT	3917	165	YORK COUNTY PA	WED	2100L	W3AXC	147.33+
49	PEACH STATE CH	SAT	0900E	K4VN	3857.5	169	SACRAMENTO VALLEY	M/THU	1730L	VARIES	3947.5
49	PEACH STATE CH	WED	2000L	K4VN	145.41 -	173	GOLDEN TRI CH	TUE	1930L	W9JRY	145.39 -
51	TEX-LA GOLDEN TRI	MON	1830L	W5AL	146.85	181	HUDSON VALLEY	SUN	0815L	W2NBT	3917
55	WI CH	SUN	0830L	WA9UVK	3985	182	NORTHEAST TN	SUN	2100L	W4CZ	145.110 -
58	CO CH	SUN	0900L	W9KRE	3910	183	PIONEER CH	SUN	0930L	VARIES	3923
58	CO CH	SUN	0930L	VARIES	146.67-	191	MONTEREY BAY CH	TUES	1930L	VARIES	146.70 +
62	SUWANNEE CH	SAT	0900L	W4PFJ	3940	194	HAWAII CH	1st S	1500L	KH6B	7088
63	CENTRAL OK CH	SUN	0730L	W5AS	3845 kcs	196	EDISON CH	DAILY	0730L	VARIES	147.345 -
63	CENTRAL OK CH	THUR	1900L	W5HXL	147.105 +	198	MID SIERRA CH	SAT	0700L	VARIES	3908
64	EL PASO CH	SAT	0830L	W5RO	3933	204	BANKS OF THE WABASH	SAT	1000L	VARIES	145.230
65	NIAGARA FRONTIER	SUN	1330L	W2QI	3900	205	EASTERN IN CH	MON	2000L	VARIES	147.045+ pl 131.8
67	AUSTIN CH	SAT	0900L	W5MDL	3920	210	OMAHA CH	TUES	1900L	W0OMA	147.36 +
70	NATIONAL CAPITAL	MON	1930L	VE3QCW	147.030-	211	NEOSHO VALLEY CH	SAT	0900C	VARIES	3907
75	CENTRAL CA COAST	SAT	1000	VARIES	7260			EXCEPT 4TH SAT			
76	BLUE RIDGE CH	SAT	0845L	W4LSK	3.740 Mhz	213	FRESNO CALIFORNIA	4TH MON	1930L	VARIES	146.850(-) pl 141.3
77	NORTHERN NJ	THU	2000L	W2IET	147.030 +						
79	SUNFLOWER CH	WED	2100L	VARIES	146.82 -						
81	LONG ISLAND QCWA CH	FRI	2030L	W2TLC	146.745 -						

New Members

Winter 2007

Date	Mem. #	Name	Call	City	ST/PR	SPONSOR	SCALL
7/2/2007	34063	BROWN, CHESTER A	WB2AHK	FLORAL PARK	NY	CHUCK WALBRIDGE	K1IGD
7/2/2007	34064	HENRY, HOSEA	K6QKS	OAKLAND	CA	-	-
7/2/2007	34065	SIMINOW, CARL	WA6JOW	COOS BAY	OR	RON OLIVER	W7VU
7/5/2007	34066	PONCE, DANIEL E	WP4F	BAYAMON	PR	NOMAR VIZCARRONDO	NP4H
7/5/2007	34067	MOULDEN, DAVIS T	WB0YNE	LEAVENWORTH	KS	-	-
7/5/2007	34068	BURKHEAD, HARRY M	K4TC	PINSON	TN	-	-
7/5/2007	34069	SCHNEIER, GARY B	KA90BZ	SKOKIE	IL	AL MAZURE	W9LOB
7/6/2007	34070	METZGER, JAMES R	KC0UE	BOULDER	CO	H P METZGER	W0KUF
7/6/2007	34071	WALTER, RONALD F	N2DMP	BALDWINVILLE	NY	EDWARD GERSTEN	WB2MWW
7/9/2007	34072	ANDREWS, RONALD L	KC0I	BIRMINGHAM	AL	-	-
7/10/2007	34073	HOLFORD, DAVID JOHN	VE3HLU	CORNWALL	ON	DOUG LEACH	VE3XK
7/10/2007	34074	SHAPIRO, STEPHANIE	WA2IAD	EGG HARBOR TOWNSHIP	NJ	ROBERT SHAPIRO	K2MYS
7/13/2007	34075	DAKIN, STEPHEN	WQ5N	FORT WORTH	TX	-	-
7/16/2007	34076	COOK, BETTY M	K5BMC	LAFAYETTE	LA	FRED R COOK	KE5LP
7/19/2007	34077	ELRICH, DON C	WB1FTK	ST AGATHA	ME	DAVE BOWKER	K1FK
7/20/2007	34078	SCHER, ALAN D	WD8PKF	ALGONA	IA	TED PAUCK	K8NA
7/20/2007	34079	MAGRUDER, ED	KE5K	VICKSBURG	MS	-	-
7/23/2007	34080	MORTON, RANDY	KE5EOT	CARROLLTON	TX	-	-
7/23/2007	34081	LOVETT, DONALD W	WB4BYR	SMITHFIELD	VA	-	-
7/24/2007	34082	CARR, AUBREY JACK	KE5LRF	WINDCREST	TX	-	-
7/24/2007	34083	BERRY, GILES W	KE3CR	NEW CASTLE	DE	-	-
7/24/2007	34084	OAKES, ROBERT J	N8BNC	LANSE	MI	JAMES F BISHOP	W8JFB
7/24/2007	34085	FISH, DANIEL M	KB0XC	HAM LAKE	MN	LEROY BALDWIN	WOOFY
7/26/2007	34086	CHILDERS, MICHAEL C	W9MC	ROBBINSVILLE	NJ	-	-
7/26/2007	34087	FAUST, SYLVAIN	VE2FET	GATINEAU	PQ	-	-
7/27/2007	34088	SAGENDORF, MARTIN C	K1CVF	BRIDGEWATER	CT	-	-
7/27/2007	34089	AUGUSTIN, MARK J	KD2PR	ROCHESTER	NY	-	-
7/27/2007	34090	GOLDMAN, DAVID S	K2YOW	HOPKINTON	MA	MICHAEL RIOUX	W1USN
7/30/2007	34091	LYLES, DON	AC6ZZ	OAKLEY	CA	-	-
7/31/2007	34092	POGUE, RONALD M	K9RMP	NOBLESVILLE	IN	-	-
7/31/2007	34093	TRACEY, JOSEPH F	KB3LNM	FINKSBURG	MD	JOHN B JOHNSTON	W3BE
8/3/2007	34094	O'BRIEN, MICHAEL D	W4DYR	MALABAR	FL	-	-
8/3/2007	34095	WILLIAMS, MICHAEL	K8SQ	CANTON	OH	-	-
8/3/2007	34096	REICHMAN, ROBERT T	WA3IHV	ESCONDIDO	CA	-	-
8/3/2007	34097	BECKS, WILLIAM G	WA8WG	PORTERFIELD	WI	DAVE ARNOLD	W8DXX
8/6/2007	34098	ANDERSON, WALTER T	W8ERB	HOUGHTON	MI	DAVE ARNOLD	W8DXX
8/6/2007	34099	ANDERSON, JOHN W	WD8RTH	WELLS	MI	DAVE ARNOLD	W8DXX
8/6/2007	34100	GOLDSTEIN, MARC B	K8LSB	WEST HARTFORD	CT	-	-
8/6/2007	34101	GURKA, ROBERT	AI4IL	LAKELAND	GA	-	-
8/7/2007	34102	CAMINO, CARMEN	WP4CKD	HAINES CITY	FL	FELIPE CAMINO	KP3AC
8/7/2007	34103	SCHERBAN, ERNEST E	W8AJZ	LAKEWOOD	OH	-	-
8/8/2007	34104	PATELLIS, CHARLES	K8CMP	MIDDLEFIELD	OH	-	-
8/13/2007	34105	GOCKENBACH, KLAUS	DK4FS	GERMANY		WALTER PILHAR	DL3LBP
8/10/2007	34106	HEIVILIN, SHARON L	KC8EO	HOUSTON	TX	VAL L ERWIN	W5PUT
8/13/2007	34107	KORB, JUERGEN	DB3JK	GERMANY		WALTER PILHAR	DL3LBP
8/13/2007	34108	JAEGER, KLAUS	DC5QR	GERMANY		WALTER PILHAR	DL3LBP
8/14/2007	34109	DURFEE, ROBERT F, III	K9XB	SHEBOYGAN	WI	-	-
8/14/2007	34110	PRESTON, ROBERT	N4CTC	LITTLETON	CO	JACK SPROAT	W4JS
8/15/2007	34111	GARRETT, STUART D, JR	KA4TXY	PALM COAST	FL	GREG CROSSMAN	WE0D
8/17/2007	34112	SNOOK, DALE LEROY	N0IEC	WINFIELD	KS	LEONARD BRUCE RUSSELL	WD0ACB
8/24/2007	34113	HURDELBRINK, EMIT	W0UAW	AURORA	CO	JIM LEWIS	WB0VYH
8/24/2007	34114	WHITAKER, WILLIAM	WB0BLJ	LAKEWOOD	CO	JIM BLECHA	W9KRE

New Members continued

Date	Mem. #	Name	Call	City	ST/PR	SPONSOR	SCALL
8/24/2007	34115	GOBBLE, TERESA J	KA4SHI	CINCINNATI	OH	BEN LOWE	K4QF
8/24/2007	34116	ELLIS, TODD R	N2XL	MORRISVILLE	NC	-	-
8/27/2007	34117	CLARKE, JAMES G	N1DIO	GUILFORD	CT	LUKE V LAURETANO	KA1SE
8/27/2007	34118	KAUFMANN, JUERGEN A	K3ZMJ	PHILADELPHIA	PA	ARTHUR C BECKER	W3JZN
8/28/2007	34119	KLEIMAN, LEONARD J	W6KGP	WILSON	WY	-	-
8/30/2007	34120	HOFKIN, GERALD	KB3AP	BALTIMORE	MD	JOHN B JOHNSTON	W3BE
9/4/2007	34121	ALLEN, HENRY L	K5BUG	CADDO MILLS	TX	SKIP AMIS	N5CFM
9/5/2007	34122	APGAR, GARY	NY6Y	TARZANA	CA	VIOLET R BARRETT	W6CBA
9/5/2007	34123	CRANE, JOHN	K6WZ	PALO ALTO	CA	-	-
9/5/2007	34124	LARKIN, RICHARD D	KA00XN	ENID	OK	-	-
9/7/2007	34125	KICK, RANDY	K5BUD	SAPULPA	OK	CAROLYN HARRISON	WB00UM
9/10/2007	34126	LAHIFF, JOHN W	WA6PHJ	LINCOLN	CA	-	-
9/10/2007	34127	JOHNSON, ROBERT E	AA8UT	MENOMINEE	MI	DAVID ARNOLD	W8DXX
9/10/2007	34128	CANFIELD, WESLEY	WA4EPB	AURORA	MO	CAROLYN HARRISON	WB00UM
9/11/2007	34129	NETHERTON, DOUG	VE3MCF	LINDSAY	ON	TONY FEGAN	VE3QF
9/11/2007	34130	REYNOLDS, CHARLES W	KJ4TQ	BRANDON	FL	-	-
9/11/2007	34131	BELEW, JACK	KI4SP	FLORENCE	AL	-	-
9/11/2007	34132	LEBOW, ELIHU	W5PPD	TULSA	OK	-	-
9/12/2007	34133	HOKE, JERRY J	WA0HVU	LAWRENCE	KS	ALVIN WIECHMAN	W0ME
9/13/2007	34134	FELDMAN, HOWARD	N1BKD	AUBURN	ME	PHILIP M YOUNG	W1JTH
9/17/2007	34135	MORRIS, JAMES I, JR	KA4MPP	WOODLEAF	NC	RALPH K BROWN	WB4AQK
9/17/2007	34136	BONDISHU, EDWARD W	WA6U	FRESNO	CA	CHARLES MC CONNELL	W6DPD
9/18/2007	34137	CALLAWAY, CHARLES R	KA4RRN	NORTHGLENN	CO	-	-
9/18/2007	34138	DAVIS, JAMES M	AA7AZ	TILLAMOOK	OR	RON OLIVER	W7VU
9/18/2007	34139	ANDERSON, JOSEPH R	WB5FMR	DAINGERFIELD	TX	SKIP AMIS	N5CFM
9/19/2007	34140	WOMACK, GEORGE C, II	WB9SJZ	DECATUR	IN	-	-
9/20/2007	34141	DAY, E FRITZ	KA1HFM	HERMON	ME	-	-
9/21/2007	34142	ARMSTRONG, JON R	K6QXG	BAKERSFIELD	CA	-	-
9/24/2007	34143	EPPS, DAVID F	AB5PC	FRESNO	CA	CHARLES P MC CONNELL	W6DPD
9/25/2007	34144	LEEPER, DAVID G	N7DK	SCOTTSDALE	AZ	JEAN JOLKOVSKI	W4CIH
9/26/2007	34145	SCHEMMEL, KENNETH	W9LVM	ANTIOCH	IL	-	-
9/26/2007	34146	KLOSS, JAY J, III	N4CBK	AUBURN	AL	-	-

Your QCWA Memorial Scholarship Fund Update

By Leland W. Smith, Jr. W4YE, QCWA Scholarship Chairman Committee: Leo Meyerson, W0GFQ, Frank Harris, WA4PAM, Chuck Walbridge, K1IGD.

One of our finest outreach programs and legacy of QCWA is the scholarship program. Did you know that since our first scholarship in 1979 through the 2007 winners we have provided approximately 275 scholarships with a value of over \$230,000?

The recipients of our scholarships often write me thanking QCWA and tell me about their future endeavors:

...*"please convey my deepest thanks to all QCWA members for Helping me realize a dream! I will be joining QCWA when eligible"*

...*"it is an honor to receive the.....Memorial Scholarship"*

...*"the QCWA scholarship is greatly appreciated and will help me pay for most of my books and materials this year"*

...*"I appreciate the opportunities ham radio has provided in my life and I am grateful for the support that QCWA has given me and other young hams"*

...*"I am so grateful that QCWA is eager to aid students in their pursuit of higher education. I am working toward a degree in information technology"*

...*"your scholarship helps me pay for my medical school education."*

Individuals, chapters and family members are encouraged to contribute to the scholarship program. All gifts are acknowledged and tax deductible. Contributions are made to the QCWA Scholarship Fund and sent to Chuck Walbridge, K1IGD, General Manager of QCWA. All funds are deposited in a scholarship investment account. Only interest and dividends received are distributed for awards from the scholarship fund.

May we suggest that all chapters consider making a contribution in memory of silent keys? This is one way in which we honor their friendship, amateur radio contributions and their memory. Large or small these contributions ensure the continuation of the program.

Please note that applicants are selected by the Foundation for Amateur Radio and students should apply to: FAR, PO Box 831, Riverdale, MD 20738.

Field Day in CT and High Speed Code!

A Journalistic History of The Life and Times in Amateur Radio of George Hart, W1NJM
by George Hart, W1NJM

We're not through with Field Day just yet. When the rules changed to allow a 27-hour instead of a 24-hour period of on-the-air operation we opted to operate the entire 27-hour period, as we had operated the 24-hour period previously. The only restriction was that the 27 hours included set-up time. Where previously we had arrived at the site at least a day ahead of time and some of us two or even three days ahead, now we could not start setting up at the site before 2 p.m. Saturday; however, if we followed this rule, we could start operating as soon as we could get a rig on the air. So a totally new approach was in order. The plan was to be prepared to set up a "temporary" position with a "temporary" antenna and start operating almost immediately at 2 p.m. while the rest of the crew would be setting up the "permanent" facilities according to a plan that would get us fully operational within an hour, thus giving us more than two hours more operating time than those who took their time getting set up and were restricted to 24 hours. The idea was to encourage amateurs to have equipment prepared to go into operation as soon as possible after an emergency communication situation occurs. I use the above words in quotes because everything about Field Day operation is temporary.

We would gather on Saturday morning at Dick Smith's (W1FTX) place, which was only about a mile from the Field Day site, and start getting our equipment ready and loaded into cars. When everything was ready and everybody fully instructed we would proceed to the FD site in a caravan, arrive there perhaps an hour before the 2 p.m. start. Someone with a receiver in his car would monitor WWV so the drill would start on the second. Then we would walk around the building, decide where and how we would erect the antennas, how to bring feedlines into the building, where to place the "temporary" operating position and its antenna, where to place the generator, etc. Everything was talk and planning at this point. No actual installation activity could begin until 2 p.m. By 1:55 everyone would be gathered around the loaded vehicles listening to the countdown.

When the long beep from WWV would signal exactly 2 p.m. we would "charge" the site carrying equipment, get the "temporary" position set up and on the air, start putting up antennas, installing "permanent" operating positions. When the first "permanent" position started operating we stopped using the "temporary" position and its personnel went about assisting in getting the other "permanent" positions "radioactive." We called it the "Chinese fire drill." Everything was hurry, hurry, hurry, often with considerable confusion, until all the "permanent" positions were set up and active. Then things started to settle down as operators started their scheduled shifts while others lounged around, shot the bull, drank beer or occasional-

ly stronger liquids, and the FD chairman prowled around checking operations, notifying persons of their shifts, posting hourly results and progress compared to previous years, the chef (Joe Moskey or Tony Dorbuck usually, but others occasionally had a shot at it, including myself) banging pots and pans in the kitchen getting ready to feed the crew. All positions continued operating the full 24+ hours. Occasionally if a piece of equipment failed it was quickly yanked and replaced. It was a high-intensity operation. The FD chairman would decide on band-changes or mode changes whenever operation on a particular band or mode would begin to slacken; but all positions would remain in operation full blast until 5 p.m. Sunday.

On our first "Chinese fire drill" we had the temporary position operational within 30 minutes, all permanent positions in operation within 1-1/2 hours. In subsequent years we improved on this by having one or more of the cars equipped with portable rigs and operational immediately at 2 p.m. so that more of the people could be used to get the permanent positions operational; so temporary operation began immediately at 2 p.m. and full FD operation started within 45 minutes. I don't have the exact figures without detailed research, but we must have won our class at least 5 times from 1951 through 1980 and placed within the top ten a majority of those years. We also challenged several club groups elsewhere in the country who had bested us or placed near us - challenged them to a private competition with agreed-upon rules outside the rest of the field. To the CWA, the object was winning. Preparedness for operating in emergencies was secondary. Also, there was very little picnic-type activity. Women and children were not a part of our FD, although occasionally some would show up. We wanted nothing to distract from our chance of winning.

At Haddam Neck, Dennis Hill and some of the other places from which we operated we used gasoline-powered generators as a power source. At no time did we ever use the commercial electric lines, even when available, as they were in most places. The generators were usually borrowed, sometimes rented, and at one time the club owned a second-hand generator, which never worked well. The biggest multiplier was for not using commercial power at the site for any purpose before, during or after the FD operating period (from 5 p.m. Saturday to 5 p.m. Sunday, later from 2 p.m. Saturday to 5 p.m. Sunday). A lesser multiplier could be applied if no commercial power was used just during the FD period. Other multipliers were available for other simulations of emergency conditions. The rules were very complicated, often poorly written-up and therefore subject to interpretation in loudly voiced debates. I always contended that it was impossible to use the biggest power-source multiplier if the site used had commercial power available, but the rest of CWA interpreted it differently and always claimed this multipli-

"I never saw another generator quite like it and never really understood how it operated. A lead-acid storage battery was used to start it, but it seemed this battery was also used to excite a "field" of some kind and gradually became discharged, so extra batteries had to be available to keep the generator going over the full 24-hour period."

er. The rules changed every year, usually as a result of trying to make them air-tight, thus becoming more complicated but always subject to different interpretations. There were always verbal loopholes and for some groups it became a game to seek these loopholes rather than to comply with the obvious intent.

On our FD outings in 1947 and 1948 with the ARRL Communications Department, Ed Handy was the kingpin and the de facto chairman of the group. He brought his old Oldsmobile car with one-wheel trailer loaded down with his big tent and all kinds of gear and his battery-consuming 500-watt generator. I never saw another generator quite like it and never really understood how it operated. A lead-acid storage battery was used to start it, but it seemed this battery was also used to excite a "field" of some kind and gradually became discharged, so extra batteries had to be available to keep the generator going over the full 24-hour period. At Haddam Neck in '49 and '50 we also used this generator but supplemented it with a rented generator, which charged its starting battery. I believe we used our own generator at two, possibly three FD's at Dennis Hill, but it was always temperamental, and at our FD on Haystack Mountain it quit altogether. Our FD that year would have been a disaster if the park ranger had not let us use a Park Department generator. At one FD I remember John Doremus brought a 5-kw generator on a trailer, which belonged to the Cardwell Company. This was the height of luxury. One simply pressed a starting button and the generator went into action, supplying us all the well-regulated power we needed with a considerable amount left over; but this was available only one year. For several of our post-Dennis Hill FD's, including the first few at New Hartford, we used Dick Smith's 4000-watt generator mounted on skids, weighing about 500 pounds. Power outages were frequent in the New Hartford area of northwestern Connecticut and Smitty used it as a standby in case and we were fortunate to be able to use it for our FD's.

But came the time when we got tired of fussing with heavy, noisy generators and the gasoline and oil and frequent breakdowns and decided to enter FD in the low-power (under 10 watts) class using a non-fossil-fuel power source. This meant

batteries, for the most part, although later we experimented with sun cells and hand-driven or foot-driven generators. We figured about ten fully-charged 12-volt batteries would meet our needs for the 27-hour period, and we would use gasoline and oil lamps and lanterns for lighting. I argued that even this was a violation of the non-fossil-fuel restriction, but the interpretation was that the restriction applied only to the power source for our radio equipment. The batteries we used were rented from the Kettledon Battery Service in Hartford. I had done business with them over the years and became quite friendly with the two or three employees there, including the owner of the business. When I explained the public service orientation of our FD he agreed to rent us ten brand new fully charged heavy duty 12-volt batteries for \$3 each for the weekend. He didn't even require a deposit. This more than met our requirements, and for several years from the New Hartford location we operated in the low power class using Kettledon batteries. I always had the greatest respect and admiration for this firm and was very sorry when they went out of business.

Competing in a ten-watt power restriction made antenna efficiency more important than ever, but antennas had always been a most important factor in our field days, and through the years we had accumulated quite a few ready-made-up antennas which were stored and dragged out every year, sometimes junked and replaced, sometimes modified, sometimes entirely new antennas devised and made up. The New Hartford site was surrounded by many tall trees, making long, high spans possible, but quite often Yagi beams were erected. At Dennis Hill some quite-sophisticated rotary beam antennas were mounted on the cupola atop the lodge, used as a forest fire detection point at times. Two-meter and six-meter beams at that relatively high altitude commanded an excellent line-of-sight area and gave us many VHF contacts, making the back-breaking work and climbing worthwhile. At the West Goshen American Legion lodge John Doremus tried to put up a ten-meter beam with base fastened to the porch of the building, using a system of ropes and pulleys; but midway in the operation we observed the porch being pulled away from the rest of the building. The operation was quickly aborted and, with an incredible amount of labor, the porch re-attached to the building. We never heard any repercussions, so apparently the repaired structure was never noticed by the legionnaires. At New Hartford, where we had a long span across the side yard, a fixed multiband three-element wire beam was devised, I've forgotten by whom, with feedlines of open wire for 10, 15, 20 and 40 meters. This antenna was strung between tall trees across the span, pointed due southwest (270 degrees) for maximum coverage across the entire middle of the country. It worked like a charm and was used at the last few CWA FD's and later by the Newington (NARL) group. Even with our 10-watt rigs we garnered many contacts using this antenna that we would never have made with ordinary configurations. I remember one contact accusing us of running a kilowatt, our 10-watt signal was so strong.

We also erected, at the New Hartford site, several 3- or 4-element Yagis for 10, 15 and 20 meters. These used, for masts, 5-foot aluminum sections which fitted six inches into each other. The procedure was to mount the Yagi atop one of the sections with the coax feedline and guy lines trailing. Two stalwarts

"The FD chairman or antenna committee chairman would scamper around getting a view of the array from several angles, shouting which guy to tighten, which one to let loose to keep the mast straight. Once the beam was at the required height, the guys would be fastened to stakes and the whole thing secured."

would lift the mast section with the beam on it and place another section under it while three others held the guy lines to keep the whole thing upright. Then another mast section would be added, sometimes totalling 12 sections in all, with two other sets of guy wires. The FD chairman or antenna committee chairman would scamper around getting a view of the array from several angles, shouting which guy to tighten, which one to let loose to keep the mast straight. Once the beam was at the required height, the guys would be fastened to stakes and the whole thing secured. It was a delicate operation calling for close attention of all concerned but I don't ever remember any such mast collapsing or anyone being injured, and the beams remained erect through much stormy weather. After a few experiences of raising such beams the operation became relatively routine and speedy.

Speaking of weather, this was always a prime consideration. We experienced many extremes, to the extent that we used to say that "Field Day is held the first stormy weekend in June." We experienced extreme heat during the day, chilly nights, thunderstorms, heavy rain, gusty winds, invasions of biting or stinging insects, even mice and snakes and skunks. At Haddam Neck Hal Bubb was stung by a yellowjacket and his keying hand swelled up so much that he couldn't use it - and he was one of our best operators. At another time we had a thunderstorm so bad that everyone refused to operate until it was over - except FD chairman Pete Chamalian who cursed at us and continued operating while we cowered. Once atop Dennis Hill we had to set up under conditions of wind and rain that had us all drenched to the skin and shivering, but we nevertheless persevered and went on the air on time. Discomfort and inconvenience were a part of Field Day, as it would be in any real emergency. Often we had to improvise. Although our main purpose was to run up the highest score possible, we inadvertently learned many lessons that would have served us well had we been called on to serve in a real emergency.

At the last meeting before every FD, I would make a motion that all alcoholic beverages be banned at the FD site. All except one time I was voted down on this by a strong majority. That once, when we had a bare quorum, I was supported by Ed Handy and John Thompson and a few others, not all teeto-

talers but agreeing that FD was not the place for drunkenness. Even so, a hidden bottle or two was apparent and consumption of beer quite open. Usually Vic Pauonoff, W1EOB, would show up with a quart of Yellowstone bourbon. Vic was at first an invited operator from the Springfield (Mass.) area, along with Roger Corey, W1JYH (later W1AX), but later both became full members and, drunk or sober, were two of our best operators. Vic especially was at his best after he had had a few. One FD when my motion was voted down, I vowed to go along with the majority and helped Vic consume his quart of Yellowstone. That year I posted my best operating performance - not the best, just my best. My annual motion to ban alcohol became a great joke; several times it didn't even get a second. Our FD's, however, were never drunken brawls. We used to joke that the alcohol was for medicinal purposes only.

One of my biggest personal problems on Field Day was pollen allergy. In my elder years I seem to have become immune to this, but in the 30's, 40's, 50's, 60's and early 70's it was a considerable problem, starting in early June and peaking near the end of the month, then gradually easing off. At our Haystack Mountain FD, at which I was chairman, I suffered miserably and it affected my performance. The site was surrounded by a sea of grass, to which I was particularly allergic. My nasal passages swelled until not a wisp of air could get through and my eyes watered and filled with mucous so that I could hardly see. Of all my FD experiences, that was the worst. Once at Dennis Hill I awoke on a Saturday morning to tremendous bursitis pain in my left knee, so bad I could barely walk. I dosed myself with aspirin but got only partial relief and limped through the remainder of the weekend. The pollen allergy was not so bad at Dennis Hill, but always present.

The only injury I remember was one time at New Hartford when Pete Chamalian, while driving a guy stake with a sledge hammer, missed the stake and hit his ankle. He was all but incapacitated but did not leave the site. Other injuries, in an environment rife with possibilities, were minor ones.

We of the Connecticut Wireless Assn. were very serious about FD, but this did not prevent us from having a great deal of fun, kidding each other, pulling practical jokes, sitting around when not on an operating shift and swapping stories, often lies. It was a sad period when the club folded up; I don't know the exact reason. All I know is that I became disenchanted with the preoccupation with DX and contests, two types of operating that never excited me much, and started losing interest. I don't flatter myself (or blame myself) for the demise of CWA, but once I stopped attending meetings the club quickly fell apart. I'll always remember, as I'm sure other past members will, the camaraderie that existed in our many meetings and Field Days together.

Members of the defunct CWA had a sort of reunion FD at Pete Chamalian's place in Burlington, but I did not attend. The chronology becomes a little vague at this point. All I know is that I didn't miss a single year of FD participation of some kind. Twice I participated from my son Fred's place in North Brookfield (MA), parked in our 22' Coachmen travel trailer near his house. The first year I did this my 1200-watt generator conked out after the first couple of contacts and I used com-

"...they took me out to their car, opened the trunk and revealed a Boehme sending machine of the utmost sophistication. They told me it was a used machine but in working condition and they would be glad to leave it with me if I would use it for the purpose stated."

mercial power for the rest of the time. The generator repair cost me \$300, but it has run flawlessly ever since, including the second year at Fred's. My goal was simple: 200 contacts minimum in the 100-watt class. The first year, on commercial power, I did close to 300 contacts, the second year just over my 200 minimum. Operation was relatively low key; I wasn't trying to win. My concentration was frequently broken by invasion from Fred's two young children, necessitating an occasional "kid break." Fred's wife, Linda, supplied meals. One year I went on a nostalgic FD with John Lindholm, W1XX, at Dennis Hill, just the two of us, using my 1200-watt generator and John's 500-watt Honda generator. We operated the full 24 hours from my trailer, John doing the antenna work, most of the setting up and all of the phone operating. In my late 70's, I was in a pre-operative stage for quintuple open-heart surgery. I felt guilty at letting John do most of the work and was a little surprised when a few years later he proposed we do it again. This time I declined, not feeling up to it.

Also during this period (80's and early 90's) I attended several FD's with the Newington (NARL) group at Churchill Park in Newington, with my trusty Coachmen trailer and 1200-watt generator. I was amused to be considered NARL's top CW operator (of a total of 20 or more who participated), whereas I had been low on the totem pole among the CWA crew. Later, NARL moved its FD to a site atop Cedar Mountain adjacent to the former state TB sanitarium which had been transformed mostly into state offices of one kind or another. The area we occupied consisted of former residences of the medical staff of the hospital, now also mostly converted to offices or used for storage. The NARL FD operations bore little resemblance to the CWA FD's. The atmosphere was more relaxed, non-competitive, with considerable family participation. I kept telling myself that this was a better type of FD operation than CWA's high-tension competitive endeavor; but in truth I missed the close camaraderie of the CWA that the competitive spirit had engendered and often wished that more of it existed in NARL. I still participate to a very minor extent in NARL Field Day operation. Last June (2000) I operated in a tent with an assistant who kept the computer log for me, made about 50 contacts. This year I'll probably do the same or maybe, for the first time since 1946, not participate at all.

Many things that happened on FD are quite amusing to remember. One year at Dennis Hill, when Jay Pilbin was the ranger, he volunteered to bring us fresh water from his house,

because the water line up to the lodge had been turned off. He brought the water in his pickup in brand new sterilized GI cans, 50 gallons at a time, keeping us so well supplied with fresh water that at any given time several full cans were sitting unused. One of our members, Harold McKean, W1CEG, was suffering from a head cold. In passing a partially-used GI can of water, thinking it was a trash can, he lifted the lid and threw in a used Kleenex tissue. Several dippings of the water had been used before someone found a piece of tissue floating around in his coffee. When the source of the tissue was revealed, coffee cups clanked all around. No one but McKean thought the incident was amusing as the can of thus-polluted water was unceremoniously dumped and other cans thoroughly inspected. Another year, at Churchill Park with NARL, I was operating from my trailer in the parking area adjacent to the athletic field where a softball game was in progress when it started to rain hard. The awning was down, so the softball players gathered under it to take shelter until the rain passed. I was annoyed at the loud babble of conversation but made no protest until one of them, apparently unable to make himself heard over the noise of the generator, reached over and switched it off. I came storming out demanding to know who turned the generator off. One very large softball player confessed, saying he didn't see any sense in running it in broad daylight, whereupon I told him that it was none of his business and they were trespassing.

"Oh, you want it on?" he asked. He lifted the 100-pound machine with one hand, pulled the starting rope with the other, then set it down. "There you go." I decided not to give him further argument.

I have all the records of past CWA Field Days in my possession, a couple of large boxfuls. Going through them will probably recall many other FD stories and incidents. If so, I'll include them in the appendixes to this narrative.

High Speed Code Practice

Being an accomplished operator of "Morse" code, I have always felt that more attention should be paid to giving higher-speed operators more practice, in the same way that W1AW, since 1940, has provided code practice at speeds up to 35 WPM. I fully understood why the League did not provide such a service: the number of amateurs interested in speeds above 35 WPM was a very small minority. In fact, there was some talk that speeds over 20 WPM should be eliminated from the daily W1AW sessions, this being the highest speed required for the highest grade of amateur license.

Some time in 1957 I was entertaining a couple of MARS visitors from Washington. I don't remember their names or whether they were Air Force or Army MARS, but when I was showing them W1AW I especially pointed out the new McElroy perforator and sending machine we had acquired after the 1953 fire. I said I wished I had something like this for my own personal use. They looked at each other and grinned.

"Shall we let him have it?" one of them asked the other. "Why not?" the other replied. "What would you do with it if you had one?" I was asked. I replied that I would start a high-speed code practice program to supplement the W1AW code practice. Whereupon, they took me out to their car, opened the

trunk and revealed a Boehme sending machine of the utmost sophistication. They told me it was a used machine but in working condition and they would be glad to leave it with me if I would use it for the purpose stated. I readily agreed and signed a "memorandum receipt" which amounted to an indefinite loan and made it legally possible for the government to reclaim the item. The armed services were distributing much surplus wartime equipment to amateurs, through MARS, on this basis, and I was assured that the prospect of its being reclaimed was absolutely nil.

Followed many long hours of tinkering. There was no instruction book or tech manual with it. The thing weighed about 75 pounds, was built like a battleship and included a ten-tube circuitry far beyond anything I had ever seen, totally unlike any of the machines I had seen back in college days when we had visited AARS at the Munitions Building in Washington. This machine used photo-electric cell tubes to produce code using the same kind of 2-hole Wheatstone tape as used at W1AW

and perforated by the McElroy-Creed perforator there. If only I could figure out how it worked!

I managed to get a tech manual from the Boehme Company, which was still operating in New York City, and some replacement tubes. The tech manual (I think they charged me for it because the P.E.C. keyer was an obsolete model and they had to dig the manual out of their old files) was very detailed and it helped me a lot in understanding how the beast was supposed to work, but I still couldn't get it going, so I took it to New York and visited the Boehme labs. They treated me quite courteously but seemed a little, just a little, amused at my enthusiasm to get it to work. Nevertheless, after I explained the symptoms to one of the older employees he made some adjustments and said the keyer would now work perfectly if I followed the manual's instructions, but he had no tape to try it out. I hadn't brought one along, thinking surely they would have one. Modern technology moves fast and obsolescence creeps up on you.

QCWA GOLF SHIRTS

A Golf Shirt (light gray) with a handsome reproduction of our classic Logo in Yellow and Black. This is a prominent way to identify yourself as a QCWA member at meetings, hamfests and conventions, or great for wearing at your local radio club.

The shirt has an embroidered QCWA logo and pocket on the left side. Your name and call can be added to the right side. The shirt fabric is 50/50 cotton/polyester blend and is made by Jerzee. The price includes prepaid delivery to your door.

SIZE CONVERSIONS:

- 34 - 36 = Small
- 38 - 40 = Medium
- 42 - 44 = Large
- 46 - 48 = XL
- 50 - 52 = XXL
- 54 - 56 = XXXL

PRICES:

Small, Medium, Large, Xtra Large	\$28.00
XX Large	\$30.00
XXX Large	\$32.00
XXXX Large (special order)	\$34.00
Name and call, per shirt	\$6.00

Golf Shirt With Embroidered Logo

Cotton/Polyester Made by Jerzee

Name _____

Call _____

Golf Shirt Size (Please circle proper size)

Small/Medium/Large/Xtra Large.....	\$28.00
XX Large.....	\$30.00
XXX Large.....	\$32.00
XXXX Large (Available on special order).....	\$34.00

Number of Shirts _____

To include your name and Call.....\$6.00
per shirt.

Total Amount _____

(Includes shipping)

Quarter Century Wireless Assn.Inc. PO Box 3247 Framingham, MA 01705-3247
Phone: 508-405-1930 Fax: 508-405-1965 e-mail: qcwagm@rcn.com
Home Page: www.qcwa.org

"It was a sad period when the club folded up; I don't know the exact reason. All I know is that I became disenchanted with the preoccupation with DX and contests, two types of operating that never excited me much, and started losing interest"

Back home, I finally got the keyer to operate from a tape made on the W1AW perforator. It was still a little shaky, the adjustments were very touchy, but at least the darn thing would now send code. The speed range, much to my astonishment, was from 10 to 700 WPM in two ranges. I contemplated a high speed of 60 WPM, so operation would be on the low speed range. Then I measured the speeds at the different settings and found that the settings were not accurate enough to suit me, so I made a chart to show what settings I should use for 15 to 60 WPM in 5-WPM intervals.

Then came the business of preparing tapes. I had no perforator, but Ed Handy had given me permission to use the W1AW perforator and their supply of 15/16" blank tape -provided only that I did not at any time interrupt the station's normal operation. "Cutting" the tapes was a long, difficult process requiring a lot of time and effort. The procedure was to prepare enough continuous tape to provide ten minutes of practice at five speed sequences for each session. When I knew I made a typo I would leave three "blank" (12 center holes) spaces. Later, after the whole tape was cut, I would go through it and correct the typos or other errors by punching a corrected piece of tape, scissoring out the erroneous part and pasting the correct part in its place. I soon found that rubber cement was no good for this purpose, it wasn't strong enough or long-lasting enough. I found Elmer's White Glue to be the best for the purpose.

Once all the known errors had been corrected, I measured out tape for each speed, using a chart I had made for the purpose, and between each speed change pasted in a W1NJM ID and announcement of speed change. Then, to complete the job, I played the whole tape on the machine and stopped it every time an error occurred, cutting out the erroneous part and pasting a corrected piece of tape in its place. Unfortunately, not being a fast or very accurate typist, this whole process took several hours, at the end of which the tape had dozens of splices in it. I still have many of those tapes and daresay they would still work on the old Boehme machine. I used each tape 6 times, at least a year apart each time. I must have over a hundred of those old tapes stored in my basement. Just think, if I had 100 tapes and each one took me three hours to prepare, that's 300 hours, or about 12 1/2 days. It was a labor of love, but it was definitely labor.

Punching the tapes was by no means the only labor connected with the program. In sending the code practice on the air I had to attend the machine, ride the fine adjustment controls when necessary and change the machine's speed at every speed change indicated. The first HSCP session took place in late 1957, probably November. I used the output of the Boehme to directly key a polar relay which keyed my homebrew 807 exciter onto which was tacked a homebrew PP813 amplifier, running about 900 watts input. What the output was I don't know, but I knew I had a strong signal, and this was evident from the number of calls I received afterward expressing delight at the program. The practice sessions continued once a week, then twice a week, and continued almost without interruption until May of 2001.

The first certificate test took place in March of 1958. It was a little ragged, despite the many long hours in preparation, but I received about 40 submissions in the mail. By that time I had started using the call W1EIA, the CWA club call, with the club's permission and blessing - but I still did 99% of the work on the program, which took so much of my spare time that occasionally my wife would complain, but not often enough or emphatically enough to cause any interruption in marital bliss or lack of family attention and care. I estimate about 6 hours of labor preparing the certificate tests, in contrast to about 2 hours preparing tapes for the ordinary practice runs. The reason the certificate tests took so much longer was that I was determined to make them as precise as possible with the equipment on hand. The tape for each test speed was carefully measured by a count of centerholes; that is, for example, the length of the tape for 20 wpm would take exactly 5 minutes to send if the sending speed was precise. Since the Boehme wasn't quite that accurate, I allowed myself 5 seconds leeway and usually kept within this tolerance; besides which, I always completed the last word, even if it went over the 5-second tolerance. The copies received were graded on the basis of one minute of consecutively solid copy of any of the five minute speed transmissions. The first certificates were personally typewritten on standard 8-1/2 by 11 paper (not counted in the 6-hour estimate above). In retrospect, the amount of time I spent on this program seems incredible.

I used W1EIA because the club, after the first two FD's using it, reverted to W1TX and, since we had no club station as such, I decided the club call should be used for something. Using it for

Memorial Scholarship Fund

NAME	HONORING
WAYEN FLICKINGER	W4OCH
RALPH HASSLINGER	W6FQ
CHAPTER 89	K4GMV
CHAPTER 32	K2DZS

*Please see page 43 for your QCWA Memorial Scholarship Fund Update!

"Roy was a little special. He lived only a couple of miles from me, in Hartford, and our friendship spanned several years. He and I used to go out drinking together before CWA meetings, showing up in an inebriated condition, much to the amusement of most and the disgust of some of the members."

the HSCP program would give the club exposure, and the members were content that I should use it, as trustee. Later I talked them into providing certificates, thus giving the club even more exposure and slightly lessening the amount of work for me. During some of my absences on business trips and, after my retirement, my first couple of sojourns in Florida during the winter months, a volunteer club member would send the CP, using tape I supplied. One year, when I was on a field trip, Roy Fosberg, W1TX, volunteered to send the certificate test from my station if I would give him precise instructions. I did so. When I left home to start my trip I left the transmitters (I was using two by that time) all tuned up and ready to go. On the date of the certificate test I was visiting at the home of George Goldstone, W8AP, a prominent amateur and lawyer in the Detroit area. George was entertaining me and Dick Egbert, the Great Lakes Division ARRL director for dinner, and he kindly consented to using his receiver so I could monitor the transmission from W1EIA (my station using the club call, operated by Roy Fosberg). He even taped it for me, and I still have the tape somewhere. The signal was loud and clear. We also monitored the transmission of the same test from WOFA in Denver, who had agreed to send it provided I supply the tape, which I did at considerable extra work.

Roy sent the transmission precisely as I had instructed, no flaws, no breaks. All the CWA members were close friends, but Roy was a little special. He lived only a couple of miles from me, in Hartford, and our friendship spanned several years. He and I used to go out drinking together before CWA meetings, showing up in an inebriated condition, much to the amusement of most and the disgust of some of the members. When he became a Silent Key, must have been some time in the 70's, I participated with other CWA friends in helping his wife dispose of his several decades of accumulated radio gear. Virginia Fosberg was as great a gal as Roy was a guy. Roy's passing was an especially sad occasion for me.

Several times when I was at the farm in Raubsville (Pa.) on a Sunday night (the night I sent the code practice) I sent it from there, using my brother Ed's (W3NF) equipment. I lugged the heavy Boehme up to Ed's radio room, set it up and sent the practice using my original call, W3AMR. Ed ran a PP813 transmitter he had built himself, running a full kilowatt to an excellent antenna erected in the trees surrounding the old stone

farmhouse on the 200-acre property. One night after the practice at W3AMR I received a telephone call from a ham in Indiana whom I had never heard of, saying that my signal had been the loudest on the band and the practice transmission absolutely great. He had gotten my telephone number, listed in my mother's name, from Information, said he had no rig on the air at the time but was a frequent listener to my CP transmissions from W1NJM and W1EIA. This and other similar incidents served to make the endeavor worthwhile.

On several occasions I enlisted the assistance of other stations in providing better coverage for the certificate transmissions, I providing the text and sometimes the tape for such transmissions. Prominent among these was Conley Smith, K6DYX, about whom more later. Other memories are fragmentary: W6OWP, W5QMJ, WOFA, W3NF (my brother Ed), W6EOT (with whom I later conducted many successful NTS-TCC schedules). Doc Gmelin (W6ZRJ, a Pacific Division ARRL director who was a close friend), CWA fellow club members Pete Chamalian, W1RM; Jack Schuster, W1WEF; Roy Fosberg, W1TX; John DePrimo, K1JD; and Frank Williams, K4GTS. The latter was an FCC employee with whom I became quite friendly. My apologies to any not at the moment of writing remembered. The story of the W1NJM high speed code program is longer still. After my retirement, my wife Louise and I spent 16 winters in Bonita Springs, Fla., at Citrus Park, a 1000-site travel trailer and motor home area nestled into a massive orange and grapefruit grove. When we first took up winter residence there in our 18-foot Shasta (1978) it consisted of 500 trailer sites. By 1994 it had expanded to 1000 sites plus a large area for mobile homes and permanent mansions. The 18-foot Shasta gave way to a 25-foot La Salle, then a 31-foot Wilderness, then a 35-foot Wilderness, which we left on the site the year around but occupied only from December through March. Travel was by a 22' Coachmen pulled by a Chevy Suburban with a 7.4-liter engine. I have recorded the 16 trips to Florida and back in another document entitled "Cars." (Note: This document is not available in the files available at QCWA Headquarters. GM)

Why Bonita Springs? That's where my brother Ed (by then N4KB) lived, and my mother lived with him. Our first visit, in

"Our first visit, in December of 1978, was intended to last only a couple of weeks but it extended into five weeks and then we explored the Florida Keys before returning home in early March. It was such an enjoyable experience that we did it again in 1979-80, after which it became an annual routine and lasted through March into early April."

December of 1978, was intended to last only a couple of weeks but it extended into five weeks and then we explored the Florida Keys before returning home in early March. It was such an enjoyable experience that we did it again in 1979-80, after which it became an annual routine and lasted through March into early April. Ed was a member, and for a time the President of the Naples Amateur Radio Club (probably not its correct name), so I met quite a few of the local amateurs very quickly, one of whom was our old friend George Suydam, then W4BM, who lived in Naples. Later I became a charter member of the Royal Palm Chapter of the Quarter Century Wireless Assn. as I was already a charter member of the Nutmeg Chapter in Connecticut.

But the greatest number of ham friends I made in Florida were in the local two-meter net. My trailers were always equipped with 2-meter gear, used to make contacts with various 2-meter repeaters along the way. There were several repeaters in the Fort-Myers-Naples area easily accessible from my location in Citrus Park with a 5/8-wave vertical atop the trailer. I made contact with a 28/88 repeater in Fort Myers, some 25 miles north, was recognized by one of its users and invited to participate in the Southwest Florida Traffic Net (SWFTN), which met at 10 a.m. every day except Sunday. I was not experienced in phone traffic nets, but this net claimed to be part of NTS, and before I knew it I was tagged to be net control once a week - I believe it was on Wednesday. I had never before controlled a phone net of any kind but felt I couldn't conscientiously refuse. After a couple of shaky starts I found myself thoroughly enjoying it and took part in the net nearly every day.

In the next installment, George continues with his high-speed code experiences.



1-800-426-2891

Metro: (763) 786-4475 • Fax: (763) 786-6513

Website: www.radioinc.com • E-mail: radiocty@skypoint.com
2663 County Road I • Mounds View, MN 55112



from MILLIWATTS to KILOWATTS™

Quality Transmitting & Audio Tubes

COMMUNICATIONS • BROADCAST • INDUSTRY • AMATEUR

3CPX800A7	3CX2500A3	4CX250R	4CX7500A	807	5868
3CPX5000A7	3CX2500F3	4CX350A	4CX10000A	810	6146B
3CW20000A7	3CX3000A7	4CX350F	4CX10000D	811A	7092
3CX100A5	3CX6000A7	4CX400A	4CX15000A	812A	3-500ZG
3CX400A7	3CX10000A7	4CX800A	4X150A	813	4-400A
3CX400U7	3CX15000A7	4CX1000A	YC-130	833A	M328 / TH328
3CX800A7	3CX20000A7	4CX1500A	YU-106	833C	M338 / TH338
3CX1200A7	4CX250B	4CX1500B	YU-108	845	M347 / TH347
3CX1200D7	4CX250BC	4CX3000A	YU-148	866-SS	M382
3CX1200Z7	4CX250BT	4CX3500A	YU-157	872A-SS	
3CX1500A7	4CX250FG	4CX5000A	572B	5867A	and more!

Immediate Shipment from Stock!

TMOS & GASFETS • Tubes & Sockets • HV Rectifiers
Transformers • Semiconductors • Wattmeters
Variable, Doorknob & Electrolytic **Capacitors**
RF Power Modules & Transistors

Orders Only:

800-RF-PARTS • 800-737-2787

Se Habla Español • We Export

Tech Help / Order / Info: **760-744-0700**

Fax: **760-744-1943 or 888-744-1943**

Send for your **FREE Catalog** or visit our
Online Catalog: **www.rfparts.com**

E-mail: rfp@rfparts.com



435 S. Pacific St.,
San Marcos, CA
92078



MEMBER CLASSIFIEDS

WANTED: Swan Mark I OR Mark II OR 1500ZA linear amplifier. Need not work but must be unmodified, complete with tubes and manual. Some cabinet scratches/dents acceptable • Swan DD-76 Frequency Display OR Swan FC-76 Counter • Swan CM17L/444 Desk Microphone • Swan 410C OR 508 External VFO. Carlton Trotman, W3BRX. w3brx@aol.com

WANTED: I'm looking for a nice Ten Tec Centaur Amplifier to QSK with my Corsair. Please let me know if you have one you would consider selling. Jack, W7CNL. Email: w7cnl@aol.com

WANTED: Flying Horse Callbooks, U.S. Only: 1955, 58, 62, 63, 69, 71, 72, 84, 85, 87 Ron Oliver. Email: w7vu@arrl.net

FOR SALE: AL-80A — 160-10 mtrs amplifier (Good condition) \$650.00 • MFJ-986 3KW ant. tuner (Good condition) \$220.00 • Swan-250, 6Mtr Xcvr. with power supply + another 250 for parts (needs some cleaning and adjustment) \$300.00 • Swan-350 (Good to restore) \$170.00 • D-104 Silver Eagle ASTATIC mike (very Nice) \$80.00 • Two SB-101's and one SB-102 Heathkit with power supplies (needs some work, some tubes missing) Package of three rigs for \$400.00 • TR3, TR4, T4XB with power supplies (some knobs and tubes missing) Package of three rigs for \$450.00 • TS-700S — 2mtr all mode Kenwood Xcvr. (Good condition) for \$225.00 • TS-130SE Kenwood Xcvr (Good working and physical condition) \$180.00 • I will accept reasonable offers and GOOD discount if you are interested in several rigs. PSE, price does not include shipping charges. Phil, KP3AC in Haines City, Central Florida. kp3ac@yahoo.com

FOR SALE: For sale or trade: National SW-5, 2.5v tubes 7 MHZ range coils, HB power supply. Richard Bauer, 563 Hambrick Rd. Dallas, TX 75218. Phone (214) 348 - 3378, k5rb@tx.rr.com.

FOR SALE: Kenwood TM-741A 50/144/70cm with duplexer & touch-tone mic \$575.00 • Kenwood TM-255A 2M all-mode with mobile bracket & touch-tone mic \$425.00 • Heath HO-10 Monitor Scope \$50.00 • Icom Discone Antenna 28-1300Mhz (new) \$75.00 • Tylon T500 tower, 72' plus 2 extra sections \$795.00 • 2 Collins S-Line stations (Round Emblem), all mint, with manuals: -75S-3C/ 32S-3A/ 30L-1/ 30S-1 with new spare 4CX1000A final/ 312-B3/ 312-B4/ 516-F2 + cables • KWM-2/ 30L-1 with 4 spare finals/ 312-B3/ 516 F2 (see station photo in QST April 2004 "Strays") • Astatic D-104 mic. Paul, VE2LR, paulreed@interlog.com or call: tel. 819-595-6727

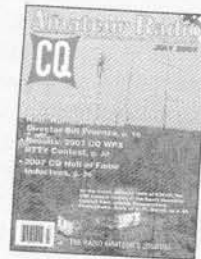
WANTED: QCWA Members!! Place your ads here for FREE!! Have something to sell? Looking for a part, manual, book etc.? Take advantage of your membership and send your ad today to: **Business Office, QCWA, Inc., P.O. Box 3247, Framingham, MA 01705-3247** or email your ad to: qcwagm@rcn.com

If you enjoy Amateur Radio, you'll enjoy

Fun to read, interesting from cover to cover, written so you can understand it.

That's CQ. Read by thousands of people each month in 116 countries around the world.

It's more than just a magazine
CQ also sponsors fourteen world-famous award programs and contests.



Also available in the Spanish language edition.
Write for rates and details.

	USA	VE/XE	Foreign Air Post
1 Year	\$36.95	\$49.95	\$61.95
2 Years	\$66.95	\$92.95	\$116.95
3 Years	\$96.95	\$135.95	\$171.95

Please allow 6-8 weeks for delivery of first issue.

CQ Magazine

25 Newbridge Rd, Hicksville, NY 11801
www.cq-amateur-radio.com
516-681-2922 Fax 516-681-2926

Amateur Radio's NEWSmagazine

WorldRadio

FCC • DX • Contests • QSL Mgrs.

Propagation • Aerials • QRP

Always a month ahead of the other magazines with the news.

Public Service • Emergency Comm. • Int'l. Goodwill

1 year (12 issues) \$17.00

877/472-8643

wr6wr.com

Publisher, Armond Noble, N6WR, QCWA Chap. 169



Communicated by Wireless -
Amateur, Commercial or
Military 40 years ago?
Licensed ham today?

THE OLD OLD TIMERS CLUB
3191 DARVANY DR
DALLAS TX 75220-1611
Phone: 214-352-4743
E-mail ootc@att.net
http://www.ootc.us

Your Official QCWA Badge



We have an official QCWA Badge for you to wear at amateur functions. It is white with black. Above is an actual size reproduction. This badge is totally engraved (not 'hot pressed').

The order blank is printed below. The badge comes with a standard clip and a bolo clip. Additional cost options: Pocket Clip - Bolo Tie (specify color) - Magnetic Backing. Note: Badge cannot be ordered with both a pocket clip and Bolo clip.

QCWA Badge Order

Call _____

First Name _____

Last Name _____

Indicate whether you want your City/State or your Chapter name and Number as bottom line on badge.

1. City and State

2. Chapter Name and Number

Badge..... \$7.00

Pocket Clip - \$2.00.....

OR

Bolo Ties - \$2.50.....

Bolo tie color (circle one): Black, Blue, Brown, Green, Red, or White

OR

Magnetic Backing - \$2.50.....

Additional Postage for **NON-US DELIVERY**

- \$1.00

Total Cost.....

Complete in full and mail with your check to:

QCWA, PO Box 3247

Framingham, MA 01705-3247

Order Your Official QCWA QSL Cards Today



QCWA QSL cards are USA standard size, printed on heavy stock which is "coated" (shiny) on the logo side. Ink is bright blue with light gold QCWA logo. You may have your call in either solid letters (above) or shadowed (right). If you want your county printed, include on the order blank. Indicate whether you want your state spelled out in full or printed with the standard postal abbreviation. Prices listed below include shipping.

Please print clearly or type your order.

ORDER YOUR QSL CARDS HERE

Call _____ ☐ Solid ☐ Shadowed

QCWA Member # _____

Name _____

Street/PO _____

County (optional) _____

City _____

State _____ ☐ Spell out ☐ Abbreviate

Zip _____ ☐ ARRL

Province/Country (if non-USA) _____

☐ 10 - 10 # _____ ☐ Grid Sq. _____

Quantity: ☐ 100 \$25.00 ☐ 200 \$35.00

☐ 300 \$45.00 ☐ 500 \$60.00

☐ 1000 \$90.00

Complete in full and mail with your check to:

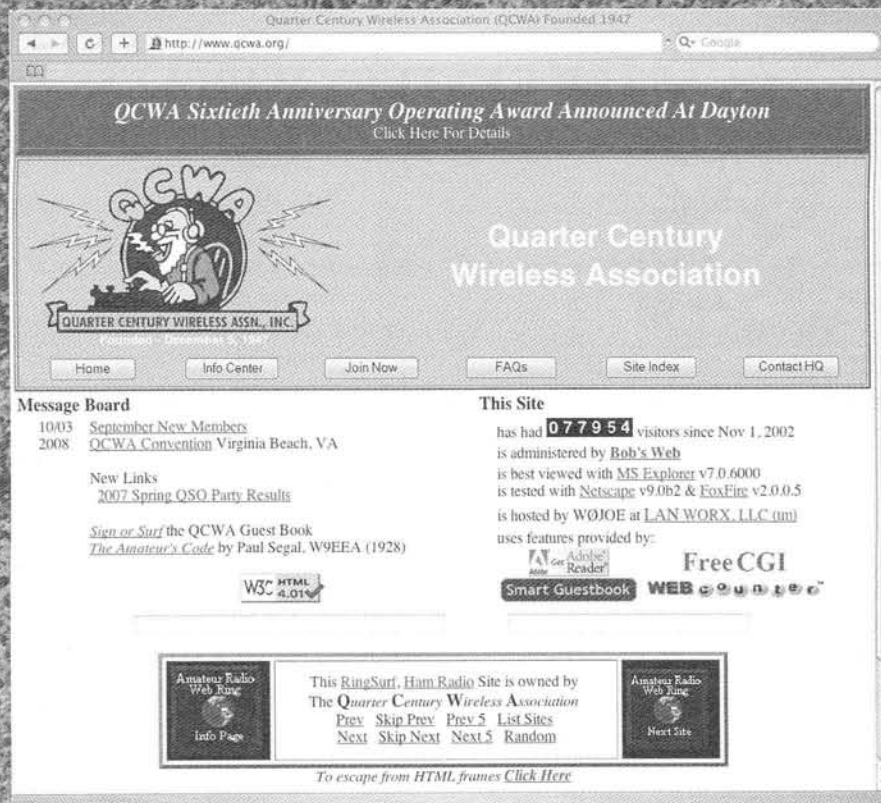
QCWA, Inc., PO Box 3247, Framingham, MA 01705-3247

Silent Keys

With great sadness we record the passing of these members

NAME	CALL	MEM. #	L	CITY	ST/PR
BLASUCCI, ALFONSO	W2KOG	22857		SCOTCH PLAINS	NJ
BOOTH, WILLIAM M	VE3AAA	05740		DON MILLS	ON
BOVACONTI, PAUL	WD9DJD	23979	L	ARLINGTON HEIGHTS	IL
BURKE, ROLAND E	WB0UZM	31931		MISSION HILLS	KS
CHIVINGTON, PATRICK SR	NN8N	23318		LAKEWOOD	OH
CONLEY, ROBERT A	W0LYU	29740		OMAHA	NE
DEVLIN, VIC	W8KPO	12249		MESA	AZ
EARLE, WILLIAM E	W7AU	11002	L	BUTTE	MT
ELMORE, ROBERT E	W5JHJ	32336		TULSA	OK
ELWELL, HENRY G JR	N4UH	09605		CLEVELAND	NC
ERICKSON, JOHN U	VE6NB	16839	L	LETHBRIDGE	AB
GALAMBOS, LOUIS G	W8VQK	28985		OREGON	OH
HALLIDAY, JIM	NX2II	29262		ENGLEWOOD	FL
HARTMAN, LEROY C	W2UBU	17315		ELMIRA	NY
JOHNSON, JAMES A C	W8RBX	03140		VERMILLION	OH
JOHNSON, PAUL K	W2GMB	16566		WANAMASSA	NJ
KLEHFOTH, WARREN G	W0JP	23178		CEDAR RAPIDS	IA
KODER, WALTER L	WD0CZO	32456		DES MOINES	IA
MAC PHAIL, J GORDON	VE3IH	27395	L	GUELPH	ON
MELLMAN, IRWIN	W9TXT	16896		OAK PARK	IL
MEYERS, HARRY J JR	K5VPH	24482		TYLER	TX
MORRISON, EDWIN F	W3RY	16469	L	FREMONT	OH
NEAL, LARRY E	K00TU	18431		INDEPENDENCE	MO
NIEDERMEIER, STANLEY	W8YIQ	06283		NEWPORT	MI
O'BRIEN, EDMOND F	W2EO	18001		TOMS RIVER	NJ
O'BRYAN, JIM	W2RVK	25741		OWEGO	NY
OEHMEN, STANLEY O	K7BZ	01065	L	LAKESIDE	AZ
OGDEN, W A	W0KHG	13439		ASHBY	MN
PALMER, DAVID H	W6PHF	16579		LOS ALTOS	CA
ROBICHAUX, DAVID A	K5EYP	22533		PERRYSBURG	OH
ROBINSON, RICHARD J	W2OZA	07054	L	YONKERS	NY
SCHEMMEL, WALTER	W4LVM	15091		ANTIOCH	IL
SMITH, PATRICIA G	N1CET	28725		HAMPDEN	MA
SORENSEN, DWIGHT W	WA0ITU	22199		KANSAS CITY	MO
STAHL, NOEL C	KH6GR	24728		GORHAM	NH
STEVENS, RICHARD B	W1QWJ	14700		WINCHESTER	NH
STROSS, ROBERT J	W2FWU	06037		LEXINGTON	SC
VAN VOORHEES, JOHN R	W7ITV	15684		KENMORE	WA
WESSEL, KENNETH F	W0QAU	07167	L	INDEPENDENCE	MO
WEST, JOHN SAMUEL	K4GMV	30942		CASSATT	SC
WITTMANN, JOHN W	WK8X	22331		BOYNTON BEACH	FL
YATES, FRANK V C	K2DZS	27236		SEMINOLE	FL

**Make sure to
visit the QCWA
website for all of
the latest, greatest
information!**



<http://www.qcwa.org>

JOIN THE AWA

ANTIQUE WIRELESS ASSOCIATION

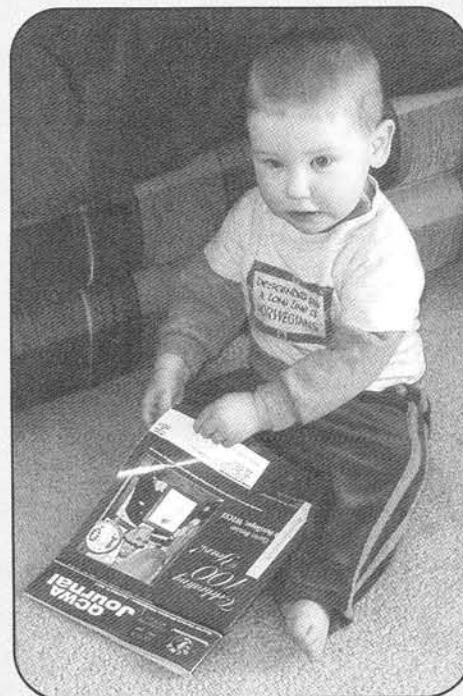
The original and largest historical radio-collector group

- Publishes *The Old Timer's Bulletin*, Marc Ellis, Editor, with:
 - Old-time amateur-radio contests
 - Communications receivers
 - Battery and AC receiver restoration
 - Vacuum-tube history and collecting
 - Free want-sell-swap ads
 - Early television
 - Horn loudspeakers
 - News of U.S. and foreign clubs
- Produces the famous annual Rochester meet
- Maintains unique radio-TV museum

Membership is only \$20 per year in the US (\$25 elsewhere)

Write to:

Antique Wireless Association, Inc. • Box E, Dept. 3
Breesport, NY 14816 <http://www.antiquewireless.org>



Potential new member, 2040! Chris Prelog, grandson of member Rudy Nabel, W0SPE, is enjoying the issue with the photo of our oldest Charter Member, Ralph Hasslinger, W2CVF. Never can start too early with the introduction of ham radio!

QUARTER CENTURY WIRELESS ASSOCIATION, INC.

P.O. Box 3247, Framingham, MA 01705-3247

508-405-1930

Fax: 508-405-1965



This form for use by all U.S. Applicants
for membership in QCWA.

Fees Effective 4/1/2007

For Official Use Only

Membership No. _____

Date _____

First Licensed Year _____

Deposit Record _____

New Application? _____ Renewal? _____ Original QCWA No. _____

I, _____, _____
(Print Name Clearly) Present Call _____

having been licensed as an amateur for 25 years or more and presently holding the call listed above,
(it is not necessary to have been licensed the entire 25 years) hereby apply for membership in QCWA.
I understand that proof of the original date of licensing is required. My complete mailing address is :

Street Number and Name _____ City _____ State _____ Zip Code _____
E-Mail Address _____ Telephone Number _____

I will keep QCWA Headquarters advised of changes in my address and/or call sign. My first Amateur
license was dated _____ and the Call was _____ Other Calls held _____

Date of Birth _____

I wish to become affiliated with QCWA Chapter _____

Your Signature _____

SCHEDULE OF MEMBERSHIP FEES

Select one of the following plans:

Member

Family Member
(ea. additional)

QCWA Dues for a ONE-year period	\$25.00	_____
QCWA Dues for a TWO-year period	\$40.00	_____
QCWA Dues for a THREE-year period	\$55.00	\$12.00 _____
QCWA LIFE Membership	\$375.00	\$90.00 _____
When paid in 3 equal installments within a one-year period	\$390.00 (3 pay of \$130.00)	\$105.00 (3 pay of \$35.00) _____

INITIAL REGISTRATION FEE, ALL NEW MEMBERS\$5.00 _____

Gold membership pins available with your call engraved (no year tag) Check fastener:

Tie-tac _____ Screw button _____ Safety pin _____ \$15.00 each _____

Year-tag pins (**tie-tac only**): 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75 or 80 \$20.00 each _____

Total _____

Proposed by _____ Call _____ No. _____

07/06

Member Supplies

CERTIFICATES

Membership Certificates are numbered in serial order and are issued to each member. Numbers are not reissued except to the same member to whom they were first issued.

- **QCWA Gold Certificates** celebrate the 50th anniversary of licensing. Issued without charge to eligible members upon proof of year of first license.
- **Gold Certificates** are issued in five-year increments; 55, 60, 65, and 70-year certificates free of charge to eligible members. Special awards are issued for 75 years and higher.
- **Fifty-Year Continuous Licensing Gold Certificate** available to eligible members. Requires submission of proof of continuous licensing. Applications are available from QCWA Headquarters.
- **QCWA Century Club Certificate** is issued to QCWA members whose age, when added to their number of years as a QCWA member totals 100 or more. No charge for this certificate.
- **Meritorious Award Certificate** is issued by Headquarters upon request of any active QCWA chapter. One such award is authorized for each chapter each year. The award may be given to recognize unusual dedication to QCWA or amateur radio. No charge for the award.

OPERATING AWARDS

The Activities Manager issues QCWA Operating Award Certificates to QCWA members. Proof of eligibility is required.

- **QCWA Worked 50 States Awards** are issued to QCWA members who have contacted members in each state of the union.
- **QCWA Worked 100 Members Awards** are issued to QCWA members who have contacted at least 100 QCWA members.
- **QCWA Worked 60 Chapters Awards** are issued to QCWA members who have contacted members of 60 chapters.
- **QCWA Worked 500 Members Awards** are issued to QCWA members who have contacted 500 QCWA members.

OTHER MEMBER SUPPLIES

- Lapel Pins without year tags. Tie tack, safety pin or screw type pins (no year) - \$15.00
- Lapel Pins with year tags (tie tack only). Specify year: 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75 or 80 - \$20.00
- QCWA Life Member pin: \$8
- QCWA Embroidered emblem: \$5.00
- 450 QCWA Red Stamps (regular): \$4.00
- 450 QCWA Gold Stamps (life): \$3.00
- 400 QCWA Yellow Stamps (50 Year): \$3.00
- QCWA Cap with logo: \$15.00
- QCWA Chapter Banner: \$225.00
- QCWA Decals: \$1.00
- QCWA QSL Cards — (see ad elsewhere)
- QCWA Member Badges — (see ad elsewhere)
- QCWA Golf Shirts— (see ad elsewhere)

Please send your order to: QCWA Headquarters, P.O. Box 3247, Framingham, MA 01705-3247
Phone (inquiries only, no orders via phone): (508) 405-1930, FAX: (508) 405-1965
We accept orders charged to credit cards. **Mastercard and VISA ONLY!!**



IC-756PROIII Where to next?



amateur | avionic | land mobile | marine | receiver | system | www.icomamerica.com

ICOM

©2007 Icom America Inc. The Icom logo is a registered trademark of Icom Inc. All specifications subject to change without notice or obligation. 9858